

This is to certify that the statements set forth in the attached have been made a part of the records of the Copyright Office with claim of copyright registered under number

In testimony whereof, the seal of this office is affixed hereto on



October 2, 2019



United States Register of Copyrights and Director

UNITED STATES COPYRIGHT OFFICE

	REGISTRATION	NUMBER	
	X	13-	ฮ50
	Tech		
-	EFFECTIVE DATE	OF REGISTRATION	
	1	NR 2 1 1978	
	Month	Day	Year

		DO NOT WRITE ABOVE THIS LINE. IF YOU NEED MORE SPACE, USE	
[TYTE	FOR THIS WARK, 1079 America 1 Parts of ACCES, Colored	CONTINUATION SHEET
1	Pre	EOFTHIS WORK: 1978 Annual Book of ASTM Standards et 4, Structural Steel; Concrete Reinforcing Sessure Vessel Plate and Forgings; Steel Rail	F-0-7 4
	SETTE	e dres, dreet fastners.	
	1	LICATION AS A CONTRIBUTION: (If this work was published as a contribution to a periodical contribution appeared.) If Collective Work:	
(2)		IMPORTANT: Under the law, the "author" of a "work made for hire" is generally the employer, not was "made for hire" check "Yes" in the space provided, give the employer (or other of that part, and leave the space for dates blank.	r person for whom the work was prepared) as "Author"
Author(s)		NAME OF AUTHOR: American Society for l'esting & l Was this author's contribution to the work a "work made for hire"? Ye. (X. No.	Material Born Died (Year)
	1	AUTHOR'S NATIONALITY OR DOMICILE: Citizen of (Name of Country) or Domiciled in U.S.A. (Name of Country) AUTHOR OF: (Briefly describe nature of this author's contribution)	WAS THIS AUTHOR'S CONTRIBUTION TO THE WORK: Anonymous? Yes No Pseudonymous? Yes No
			If the answer to either of these questions is "Yes, see detailed instructions attached."
		NAME OF AUTHOR: Was this author's contribution to the work a "work made for hire"? Yes No	Born Died (Year)
in e. e. 1974 Maria antiquita e Mari	2	Citizen of	WAS THIS AUTHOR'S CONTRIBUTION TO THE WORK: Anonymous? Yes. No.
		AUTHOR OF: (Briefly describe nature of this author's contribution)	Pseudonymous? Yes No If the answer to either of these questions is "Yes, see detailed instructions sitached."
		NAME OF AUTHOR: Was this author's contribution to the work a "work made for hire"? Yes No	Born Died (Your)
i de transpraga en est. Estat transpraga en en el de en formette	3	AUTHOR'S NATIONALITY OR DOMICILE: Citizen of	WAS THIS AUTHOR'S CONTRIBUTION TO THE WORK: Anonymous? Yes. No.
and the second		AUTHOR OF: (Briefly describe nature of this author's contribution)	Pseudonymous? Yes No
	YEA	R IN WHICH CREATION OF THIS WORK WAS COMPLETED: DATE AND NATION	OF FIRST PUBLICATION:
		DateFebrus	
Publication		(This information must be given in all cases.) (Complete this	block CNLY if this work has been published.)
0,	Ame 191 Phi	e(s) and address(es) of copyright claimant(s): rican Society for Testing and Materials 6 Race Street ladelphia, Pennsylvania 19103	
	ciaim	NSFER: (If the copyright claimant(s) named here in space 4 are different from the author(s) named here in space 4 are d	ned in space 2, give a brief statement of how the

Complete all applicable spaces (numbers 5-11) on the reverse side of this page
 Follow detailed instructions attached
 Sign the form at line 10

DO NOT WRITE HERE Page 1 of ... 7 ... pages

DO NOT WRITE ABOVE THIS LINE. IF YOU MEED ADDITIONAL SPACE, USE CONTINUATION SHEET (FORM TX/CON) TREVIOUS REGISTRATION: Has registration for this work, of for an earlier version of this work already bears made in the Copyright Office? Yes, XX. No		CHECKED BY: CORRESPONDENCE: Yes	DEPOSIT RECEIVED: 648 0 1 1978	FOR COPYRIG
DO NOT WRITE ABOVE THIS LINE. IF YOU NEED ADDITIONAL SPACE, USE CONTINUATION SHEET (FORM TX/CON) **REVIOUS REGISTRATION** **Direction of this work, for in earlier varieties of this work, sheetly liver made in the Copyright Office?* **Upon answer is "Ye," "but you are characteristic being supplied to the specific them to a purple to the supplied and sheetly was an own of the supplied and sheetly was an own of the supplied and sheetly was an own of the supplied and sheetly being supplied to the supplied and sheetly to be an other varieties of the supplied and sheetly applied on a sheetly on being supplied to the supplied and sheetly applied on a sheetly on the supplied and sheetly on the supplied and sheetly on the supplied and sheetly applied on a sheetly on the supplied and sheetly applied on a sheetly on the supplied on the supplied of the supplied on the supplied on a sheetly on the supplied and sheetly applied on a sheetly on the supplied of the supplied on the supplied on a sheetly on the supplied of the supplied on the supplied on a sheetly on the supplied of th		CORRESPONDENCE:	DEPOSIT RECEIVED: HARRY 1 1978	COPYRIG
DO NOT WRITE ABOVE THIS LINE. IF YOU MED ADDITIONAL SPACE, USE CONTINUATION SHEET (FORM TX/CON) REVIOUS RECISTRATION. This is the purpose of the work of or a caller version of this ones, sheady live made in the Copyright Cilice? If your answer is "An" why is another registration being tought? (Check spreamate bool This is the purposed control of the work of the purpose of th		☐ Yes	DEPOSIT RECEIVED: HARRY 1 1978	COPYRIG
DO NOT WRITE ABOVE THIS LINE. IF YOU NEED ADDITIONAL SPACE, USE CONTINUATION SHEET (FORM TX/CON) REVICUOUS REGISTRATION **Har registration for this work, or for an earlier version of this work, sheady-less made in the Capyright Office? **Har registration for this work, or for an earlier version of this work, sheady-less made in the Capyright Office? **Har registration for this work, or for an earlier version of this work, sheady-less made in the Capyright Office? **Har registration for this work or for an earlier version of this work, sheady-less made in the Capyright Office? **Har registration for this work or for an earlier version of the security registered to unpublished form. **This is the that published reliation of a work previously registered for unpublished form. **This is the that published reliation of a work previously registered for unpublished form. **This is the that published reliation of a work previously registered for unpublished form. **This is the that published reliation of a work previously registered for unpublished form. **This is the that published reliation of a work previously registered for unpublished form. **This is the that published reliation of the work of this explication. **This is the that published reliation of the work of this work is based on or incorporated. **This is the this published work consisting preponderably of nondramatic literary material in English, the law way require that the copies be manufactured who performed cervity of the copies be manufactured who performed cervity. **This is the published work consisting preponderably of nondramatic literary material in English, the law way require that the copies be manufactured who performed cervity in processor, and is copies be manufactured who performed cervity in processor, and is copies be manufactured who performed cervity in processor, and is copies be manufactured who performed cervity in processor, and copies to the copies of the Copyright Copyright Copyright Copyright Copyright Copyright Cop		☐ Yes	图48 / 1 14 / B	
DO NOT WRITE ABOVE THIS LINE. IF YOU NEED ADDITIONAL SPACE, USE CONTINUATION SHEET (FORM TX/CON) EXPLOSE RECISTRATION. **Bycar convers "> Ye, "why is another registration being sweight? (Clinic appropriate box) **Bycar convers "> Ye, "why is another registration being sweight? (Clinic appropriate box) **Bycar convers "> Ye, "why is another registration being sweight? (Clinic appropriate box) **Bycar convers "> Ye, "why is another registration being sweight? (Clinic appropriate box) **Bycar convers "> Ye, "why is another registration being sweight? (Clinic appropriate box) **Bycar convers "> Ye, "why is another registration being sweight? (Clinic appropriate box) **Bycar convers "> Ye, "why is another registration being sweight? (Clinic appropriate box) **Bycar convers "> Ye, "gove Previous Registration Number. A 836245. Year of Registration 1977. **Bycar conserve "Ye," gove Previous Registration Number. A 836245. Year of Registration 1977. **DIFFLATION OR DERIVATIVE WORK! (Seve shird, general statement of the material that has been added to this work and in which copyright is cleamed.) **Compilation of previously published work consisting preponderantly of nondramatic literary material in English, the low py require that the copies be manufactured until the United States or Cenada for full protection. If so, the names of the manufacturers who performed cerving registers that the copies be manufactured until the United States or Cenada for full protection. If so, the names of the manufacturers who performed cerving registers that the copies be manufacturers who performed cerving registers that the copies be manufacturers who performed cerving registers that the copies be manufacturers who performed cerving registers that the copies be manufacturers who performed cerving registers that the copies of manufacturers who performed cerving registers that the copies of manufacturers who performed cerving registers that the manufacturers who performed cerving registers that the processes, and the places who				OFFICE
DO NOT WRITE ABOVE THIS LINE. IF YOU NEED ADDITIONAL SPACE, USE CONTINUATION SHEET (FORM TX/CON) Has registration for this work, or for an earlier version of this work, already been made in the Copyright Office? Has registration for this work, or for an earlier version of this work, already been made in the Copyright Office? Has registration for this work, or for an earlier version of this work already been made in the Copyright Office? Has registration for this work, or for an earlier version of this work already been made in the Copyright Office? Has registration for this work or for an earlier version of this work and the work of the supplication of the work and the supplication of the work and the supplication of the supplication of the work of the supplication of the work of the supplication of the work of the supplication of the supplication of the supplication of the work of the supplication in Beautiful State of the supplication of the supplication in Beautiful State of the supplication of the supplication in Beautiful State of the supplication of the State of the supplication in Beautiful State of the supplication in Beautiful State of the supplication and the supplication of the State of the supplication in Bea			POW 2 1 1973	OFFICE USE
DO NOT WRITE ABOVE THIS LINE. IF YOU NEED ADDITIONAL SPACE, USE CONTINUATION SHEET (FORM TX/CON) BEVIOUS REGISTRATION. Has registrate for this work, or for an earlies worken of this work, abready bean made in the Copyright Office? Yes, XX. No			REMITTANCE NUMBER AND DATE	ONLY
DO NOT WRITE ABOVE THIS LINE. IF YOU NEED ADDITIONAL SPACE, USE CONTINUATION SHEET (FORM TX/CON) EVICUS REGISTRATION - Har registration for this such, or for an earlier vention of this work, already been made in the Copyright Office? - Yes, XX. No			136761 MAR 2178	
Has registration for this work, or for an earlier version of this work, already been made in the Copyright Office? Has registration for this work or for an earlier version of this work, already been made in the Copyright Office? This is the first published cofficts of a work previously registrated in unpublished form. This is the first published without of a work previously registrated in unpublished form. This is the first published without of a work previously registrated in unpublished form. This is the first published without of a work of previously registrated in unpublished form. This is the first published without of a work of the published work of the published work of the published form. The published work of the published work of the special published work in based on or incorporates.] PREENISTING MATERIAL. Odernity may preexisting work or works that this work in based on or incorporates.] ANTIFICIAL ADDED TO THIS WORK: (Give a brief, general statement of the material that has been added to this work and in which copyright is claimed.) Compilation of previously published work consisting preponderantly of nondramatic literary material in English, the law by require that the copies be minurisherized in the United States of Conads for full protection. It so, the names of the manufacturers who performed cere processes, and the places where these processes were performed must be given. See Instructions for details, in processes, and the places where these processes were performed must be given. See Instructions for details, in processes, and the places where these processes were performed must be given. See Instructions for details, in processes, and the places where these processes were performed must be given. See Instructions for details, in processes, and the places where these processes were performed must be given. See Instructions for details. NAMES OF MANUFACTURES FLACES OF MANUFACTURE **Signature of this form at space 10, and a check in one of the boxes here in space 8, constitutes a				
Has registration for this work, or for an earlier version of this work, already bean made in the Copyright Office? Yes, XX No. If your answer is "Yes," why is another registration being sough? (Check appropriate box) This is the first application and on a work previously registered in unpublished form. This is the first application and the sought of the supplication. This is the first application and the sought of the supplication. This is the first application and the supplication is a work previously registered in unpublished form. This is the first application and the supplication in the supplication is a copyright claimant. This is always the probable design of a work previously registered in unpublished form. This is the first application of a work previously registered in unpublication. This is the first application of a work previously registered in unpublished form. This is always the probable design of the supplication in the supplication. The probable design of the supplication is a supplication in the supplication in supplication is for intellated. The supplication of the Copyright of the supplication is finally in proceeding. The supplication is finally in the supplication of a reading of the supplication of a reading of the supplication of the Copyright of the conditions and similations practically the regulations of the Copyright of the conditions and supplication is misself or similar teatlies symbols; or [2] phonorecords only in the supplication of a reading of the supplication of a reading of the supplication is finally in supplication in small control of the supplication of a reading of the supplication and supplication is small control of the copyright of the copyright of the supplication and the supplication and control of supplication and the supplication a		ADDITIONAL SPACE, U	SE CONTINUATION SHEET (FORM TX/C	(NC
** If your answer is "Yes," why is another registration being sought? Check appropriate bool This is the first applicated and then published afrom this is the first application and then published form. This is the first application assumited by this author as copyright claimant. This is the first application assumited by this author as copyright claimant. This is the first application assumited by this author as copyright claimant. This is the first application assumited by this author as copyright claimant. The administration of the properties of the published form. PREEXISTING MATERIAL: Identify any presenting work or works that this work is based on or incorporates.) 1977. Edition. Annual. Book of ASTM Standards, Part 4. Committee of the published of the published work consisting preponderantly of nondramatic literary material in English, the law ay require that the copies be manufactures who performed cere in processes, and the places where these processes were performed must be given. See instructions for details.) **ANUFACTURESS AND LOCATIONS: (If this is a published work consisting preponderantly of nondramatic literary material in English, the law ay require that the copies be manufactures who performed cere in processes, and the places where these processes were performed must be given. See instructions for details.) **NAMES OF RANKFACTURES** **WAVETLY. Press.				5
This is the first published edition of a work previously registered in unpublished form. This is the first application submitted by this authorized accompting diament. This is the first application submitted by this authorized accompting diament. This is the first application submitted by the authorized accompting to the submitted by the sub	Has registration for this work, or for an earlier version of this work, already	y been made in the Copyright Of	fice? Yes.XX. No	
This is the first application administed by this author as copyright claimant. This is the first application and the work is shown by the of this application. If your answer is "Yes," give Previous Registration Number. A. 836245. Veer of Registration PREEXISTING MATERIAL: (Identify any pressisting work or works that this work is based on or incorporates.) 1977. Edition; Annual. Book of ASTM Standards, Part 4 MATERIAL ADDED TO THIS WORK; (Give a brief, general statement of the material that has been added to this work and in which copyright is claimed.) Compilation of previously, published text plus additional text. AMUFACTURERS AND LOCATIONS: (If this is a published work consisting preponderantly of nondramatic literary material in English, the law ay require that the copies be manufactured in the United States or Canada for full protection. If so, the names of the manufacturers who performed cere in processes, and the places where these processes are registromed must be given. See instructions for details.) NAMES OF MANUFACTURERS Waverly, Press,, Inc. Easton, Maryland EPRODUCTION FOR USE OF BLIND OR PHYSICALLY-HANDICAPPED PERSONS: (See instructions) **Supersum of this form at space 10, and a check in one of the boses have in space 8, constitutes an on-scalative grant of permission to the Library of Congress to reproduce and definite stable, giftle fifted and physically handicapped and under the conditions and limitations praceable by the negulations of the Copyright of the certification of the Copyright of the conditions of the conditions and limitations praceable by the negulations of the Copyright of the certification of the Copyright of the conditions of the conditions and limitations praceable by the negulations of the Copyright of the conditions of the copyright of the copyright of the copyright of the conditions of the copyright of the copyrig	If your answer is "Yes," why is another registration being sought? (Check a	appropriate box)		Previou
## The is a changed version of the work, is shown by fine of of this application. ## Hyour answer is "Yes" give Previous Registration Number: ## A. 836245 Near of Registration	I his is the first published edition of a work previously registered in un. This is the first application submitted by this author as convicint claim.	published form.		Regist
** Hyour answer is "Yes," give: Previous Registration Number: A. 836245. Year of Registration 1977. **DMPRATION OR DERIVATIVE WORK: (See instructions) **PREEXISTING MATERIAL. (Identity any preexisting work or works that this work is based on or incorporates.) **I 1977. Edition., Annual Book of ASTM Standards, Part 4 **MATERIAL ADDED TO THIS WORK: (Sive a brief, general statement of the material that has been added to this work and in which copyright is claimed.) **Compilation of previously published work consisting preponderantly of nondramatic literary material in English, the law any require that the copies be manufactured in the United States or Conada for full protection. If so, the names of the manufacturers who performed cern processes, and the places where these processes were performed must be given. See instructions of details.) **NAMESOF MANUFACTURERS** **WAVERILY PRESS.** **Inc.** **ERRODUCTION FOR USE OF BLIND OR PHYSICALLY-HANDICAPPED PERSONS: (See instructions) **Signature of this form at space 10, and a check in one of the boxes here in space 8, constitutes a non-exclusive grant of permission to the Library of Congress to reproduce and destributed with destributed in physically handscapped and under the conditions and limitations prescribed by the regulations of the Copyright Office. It does not also the state of the work of (3) both. **Signature of this form at space 10, and a check in one of the boxes here in space 8, constitutes a non-exclusive grant of permission to the Library of Congress to reproduce and destributed and in destributed and in part of the work of (3) both. **Signature of this form at space 10, and a check in one of the boxes here in space 8, constitutes a non-exclusive grant of permission to the Library of Congress to reproduce and destributes and physically				tion
DePELATION OR DERIVATIVE WORK: (See Instructions) PREENISTING MATERIAL. (Identify any precessing work or works that this work is based on or incorporates.) 1977. Edition; Annual Book of ASTM Standards, Part 4 MATERIAL ADDED TO THIS WORK: (Give a brief, general statement of the material that has been added to this work and in which copyright is claimed.) Compilation of previously published work consisting preponderantly of mondramatic literary material in English, the law sy require that the copies be manufactured in the United States or Canada for full protection. If so, the names of the manufacturers who performed cere in processes, and the places where these processes were performed must be given. See instructions for details.) NAMES OF PANNEYCTURES PLACES OF MANUFACTURE Waverly Press, Inc. Easton, Maryland **Signature of this form at space 10, and a check in one of the boxes here in space 8, constitutes a non-exclusive grant of permission to the Library of Congress to reproduce and destricts easily by the fifth (and physically handicapped and under the conditions and limitations prescribed by the regulations of the Copyright of the: (1) opens of the work is termined in page 1 of this application in Braile for similar testingsholds; or (2) phonorecords by the regulations of the Copyright of these (3) opens of the work is testinged in page 1 of the application in Braile for similar testingsholds; or (2) phonorecords only **EPPOST ACCOUNT: (if the registration fee is to be charged to a Copies Only Copies On	이 문장 등장 전체들이 보고수 취임 수장 안 내용 사를 내려가 되었다. 기계하다	100 TO 100	ear of Registration 1977	
PREEXISTING MATERIAL. identify any presisting work or works that this work is based on or incorporates.) 1977. Edition; Annual Book of ASTM Standards, Part 4. Committee of the Asta of				
MATERIAL ADDED TO THIS WORK: (Give a brief, general statement of the material that has been added to this work and in which copyright is claimed.) **Compilation of previously published text plus additional text.** **AMUFACTURERS AND LOCATIONS: (If this is a published work consisting preponderantly of nondramatic literary material in English, the law yor require that the copies be manifectured in the United States or Canada for full protection. If so, the names of the manufacturers who performed cern processes, and the places where these processes were performed must be given. See instructions for details.) NAMES OF MANUFACTURERS PLACES OF MANUFACTURE PRODUCTION FOR USE OF BLIND OR PHYSICALLY-HANDICAPPED PERSONS: (See instructions) **Signature of this form at space 10, and a check in one of the boxes here in space 8, constitutes a non-exclusive grant of permission to the Library of Congress to reproduce and distributes is indicated in single 1 of this application in Braille for similar textle symbols), or (2) phonorecords embodying a fiscation of a reading of that work, or (3) both. **Signature of this form at space 10, and a check in one of the boxes here in space 8, constitutes a non-exclusive grant of permission to the Library of Congress to reproduce and distributes is indicated in space 1 of this application in Braille for similar textle symbols), or (2) phonorecords embodying a fiscation of a reading of that work, or (3) both. **EPOSIT ACCOUNTS: (6) the registration fee is to be charged to a proof Account established in the Copyright Office, give name and address to which correspondence about this application should be sent.) **Name: Robert L. Meltzer Astron.** **Phila (1 phila , Pennsylvania 19103 (State) **Toyled or printed name. Robert L. Meltzer Date 3 (Materials) **Toyled or printed name. Robert L. Meltzer Date 3 (Materials) **Toyled or printed name. Robert L. Meltzer Date 3 (Materials)	prand at			(8
MATERIAL ADDED TO THIS WORK: (Give a brief, general statement of the material that has been added to this work and in which copyright is claimed.) Compilation of previously published text plus additional text. ANUFACTURERS AND LOCATIONS: (If this is a published work consisting preponderantly of nondramatic literary material in English, the law yr equite that the copies be manufacturers who performed cerp recesses, and the places where these processes were performed must be given. See instructions for details.) NAMES OF MANUFACTURERS PLACES OF MANUFACTURERS Waverly Press, Inc. Easton, Maryland EPRODUCTION FOR USE OF BLIND OR PHYSICALLY-HANDICAPPED PERSONS: (See instructions) Signature of this form at space 10, and a check in one of the boxes here in space 8, constitutes a non-exclusive grant of permission to the Library of Congress to reproduce and destinates of the protection of the Copyright (of these work identified in space 1 of this application in Braille (or similar textile symbols), or (2) phonorecords embodying a fixation of a reading of the work identified in space 1 of this application in Braille (or similar textile symbols), or (2) phonorecords embodying a fixation of a reading of the work identified in the Copyright Office, give name and uninber of Account. BEPOSIT ACCOUNTS: (If the registration fee is to be charged to a expect account established in the Copyright Office, give name and uninber of Account.) And Copyright Chicago and the copyright Chicago and the copyright Chicago and the copyright Chicago and Materials Correspondent to other copyright chicago and of schedule register to make a count of the copyright chicago and the copyright chicago and chicago and make a count of the copyright chicago and chicago and make a count of the copyright chicago and chicago				
MATERIAL ADDED TO THIS WORK: (Give a brief, general statement of the material that has been added to this work and in which copyright is claimed.) COMPILATION Of Previously published text plus additional text. AMUFACTURERS AND LOCATIONS: (If this is a published work consisting preponderantly of nondramatic literary material in English, the law sy require that the copies be manufacturers who performed early processes, and the places where these processes were performed must be given. See instructions for details.) NAMES OF MANUFACTURERS PLACES OF MANUFACTURERS Waverly Press, Inc. Easton, Maryland **Signature of this form at space 10, and a check in one of the bosies here in space 8, constitutes a non-exclusive grant of permission to the Library of Congress to reproduce and distributes inspired by the regulations of the Copyright Office: (I) copies of the work identified in space 1 of this application in Braille (or similar tactile symbols), or (2) phonorecords embodying a fixation of a reading of the work identified in space 1 of this application in Braille (or similar tactile symbols), or (2) phonorecords embodying a fixation of a reading of the work identified in the Copyright Office, give name and units and of Account) **EPPOSIT ACCOUNTS** (If the registration fee is to be charged to a spootal Account established in the Copyright Office, give name and units and office of the copyright of the copyright Office, give name and address 10 feet and this application should be sent.) **Name** ROBERT** L Mellzer** Phila(Iphia, Pennsylvania 20103 (Sista) Corresponders of other copyright claims at Downs of office deliver eight(s) Mauthouted agant of the work identified in this application and that the statements made by mg in this application are correct to the best of my knowledge. Typad or printed name. Robert** L Mellzer** Date: Typad or printed name. Robert** L Mellzer** Date: Typad or printed name. Robert** L Mellzer** Date: Typad or printed name. Robert** L Mellzer** Da	1977 Edition, Annual Book	of ASTM Stand	ards, Part 4	Compile
ANUFACTURERS AND LOCATIONS: (If this is a published work consisting preponderantly of nondramatic literary material in English, the law ay require that the copies be manufactured in the United States of Canada for full protection. If so, the names of the manufacturers who performed cern processes, and the places where these processes were griefromed must be given. See instructions for details.) NAMES OF MANUFACTURERS PLACES OF MANUFACTURERS PLACES OF MANUFACTURERS PLACES OF MANUFACTURERS Signature of this form at space 10, and a check in one of the boxes here in space 8, constitutes a non-exclusive grant of permission to the Library of Congress to reproduce and destribute of the bird and physically handicapped and under the conditions and limitations prescribed by the regulations of the Copyright Office: (I) copies of the work iteratified in space 1 of this application in Braille for similar scale symbols), or (2) phonorecords embodying a fixation of a reading of that work, or (3) both. **DEPOSIT ACCOUNT: (If the registration fee is to be charged to a personal Account established in the Copyright Office, give name and when the conditions and limitations should be sent.) **DEPOSIT ACCOUNT: (If the registration fee is to be charged to a personal Account established in the Copyright Office, give name and work of Copyright Office, give name and when the conditions of the copyright claims at Desert of cyclusive right(s), (Bauthodized agant of the copyright claims at Commercial Copyright Continuant of corner of exclusive right(s), (Bauthodized agant of Name of author or other copyright claims at Corner of exclusive right(s), (Bauthodized agant of Name of other copyright claims at Corner of exclusive right(s), (Bauthodized agant of Name of other copyright claims at Corner of exclusive right(s), (Bauthodized agant of Name of other copyright claims at Corner of exclusive right(s), (Bauthodized agant of Name of other copyright claims at Corner of exclusive right(s), (Bauthodized agant of Name of other copyright cl	and the second s		*******************************	OF
ANUFACTURERS AND LOCATIONS: (If this is a published work consisting preponderantly of nondramatic literary material in English, the law ay require that the copies be manufactured as the United States of Canada for full protection. If so, the names of the manufacturers who performed cere in processes, and the places where these processes were griefromed must be given. See Instructions for details. NAMES OF MANUFACTURERS Waverly Press, Inc. Easton, Maryland **Signature of this form at space 10, and a check in one of the boxes here in space 8, constitutes a non-exclusive grant of permission to the Library of Congress to reproduce and destribute obeing for the bland and physically handicapped and under the conditions and limitations prescribed by the regulations of the Copyright Office: (I) copies of the work identified in place 1 of this spilication in Braille for similar actile symbols), or (2) phonorecords embodying a lination of a reading of that work, or (3) both. **Signature of this form at space 10, and a check in one of the boxes here in space 8, constitutes a non-exclusive grant of permission to the Library of Congress to reproduce and destribute of the internet of the copyright of this spilication in Braille for similar actile symbols), or (2) phonorecords on the Library of Congress to reproduce and destribute of the copyright cleans and control exclusive right(a) (Brail of the copyright cleans and control control or or other copyright cleans and copyright cleans and control control or or other copyright cleans and copyright cleans and control contains and control to the copyright cleans and copyright cleans and control contains and control to the copyright cleans and control contains and control to the copyright cleans and control contains and control to the copyrig	MATERIAL ADDED TO THIS WORK: (Give a brief, general statement of	of the material that has been add	ed to this work and in which copyright is claimed.)	Derivat
ANUFACTURERS AND LOCATIONS: (if this is a published work consisting preponderantly of nondramatic literary material in English, the law ay require that the copies be manufactured at the United States or Canada for full protection. If so, the names of the manufacturers who performed cerlin processes, and the places where these processes were performed must be given. See instructions for details.) NAMES OF MANUFACTURES PLACES OF MANUFACTURE Waverly Press, Inc. Easton, Maryland **Signature of this form at space 10, and a check in one of the boxes here in space 8, constitutes a non-exclusive grant of permission to the Library of Congress to reproduce and distribute scale for the property of the work identified in space 1 of this application in Braille (or similar tactile symbols). or (2) phonorecords embodying a fixation of a reading of that work, or (3) both. **A © Copies and phonorecords **B Copie	processors of the state of the			Worl
ANUIFACTURERS AND LOCATIONS: (if this is a published work consisting preponderantly of nondramatic literary material in English, the law any require that the copies be manufactured in the United States or Canada for full protection. If so, the names of the manufacturers who performed certain processes, and the places where these processes were performed must be given. See instructions for details.) NAMES OF MANUFACTURES PLACES OF MANUFACTURE Waverly Press, Inc. Easton, Maryland EPRODUCTION FOR USE OF BLIND OR PHYSICALLY-HANDICAPPED PERSONS: (See instructions) Signature of this form at space 10, and a check in one of the boxes here in space 8, constitutes a non-exclusive grant of permission to the Library of Congress to reproduce and destrible scele by the regulations of the Coppright Office: (1) copies of the work identified in space 1 of this application in Braille (or similar tactile symbols), or (2) phonorecords embodying a fixation of a reading of that work, or (3) both. a Copies and phonorecords b Copies Only COPIESPONDENCE: (Give name and address to which correspondence about this application should be sent.) Name: Robert L. Meltzer, ASTM. Address 1916 Race Street Phila (Iphia, Pennsylvania 1910) Covered County (Stella) Covered County (Stella) Covered County (Stella) Finandwritten signature: (X) Address 1916 and Congretary in the control of author or other coppright cleimant To owner of exclusive right(s), Statehouted agent of the work identified in this application and that the statements made by mg in this application are correct to the best of my knowledge. Finandwritten signature: (X) Address 1 Address	Compilation of previously but	lished text r	olus additional text.	
Typed or printed name. Robert L. Meltzer Date 3//4/78 MAIL Makes Manufactures who performed cerining processes, and the places where these processes were performed must be given. See instructions for details.) NAMES OF MANUFACTURES PLACES O	and the state of the second second section in the second section is a second section of the second section in the second section is a second section of the second section in the second section is a second section of the second section in the second section is a second section of the second section in the second section is a second section of the second section in the second section is a second section of the second section is a second section of the section is a second section of the section is a second section of the section is a section of the section is a section of the section of the section is a section of the section of th		POTENTIAL PROPERTY OF THE PROP	
ay require that the copies be manufactured in the United States of Canada for full protection. If so, the names of the manufacturers who performed cerl in processes, and the places where these processes were performed must be given. See instructions for details. NAMES OF MANUFACTURES PLACES	FACTURERS AND LOCATIONS: (If this is a published wor	k consisting preponderantly	of nondramatic literary material in English, the l	aw
NAMES OF MANUFACTURES PLACES OF MANUFACTURE	quire that the copies be manufactured in the United States of Can	nada for full protection. If so,	the names of the manufacturers who performed c	er-
Waverly Press, Inc. Easton, Maryland Signature of this form at space 10, and a check in one of the boxes here in space 8, constitutes a non-exclusive grant of permission to the Library of Congress to reproduce and distribute solely for the bind and physically handicapped and under the conditions and limitations prescribed by the regulations of the Copyright Office. (I) copies of the work identified in space 1 of this application in Braille (or similar tactile symbols); or (2) phonorecords embodying a fixation of a reading of that work, or (3) both. BEPOST ACCOUNT: (If the registration fee is to be charged to a pepost Account established in the Copyright Office, give name and address to which correspondence about this application should be sent.) Name: Robert L. Meltzer, ASTM. Address:1916 Race Street Phila: 1phia, Pennsylvania (2) (CRY) (Sisted) (Sisted) (Sisted) (Sisted) Address:1916 Race Street Phila: 1phia, Pennsylvania (2) (CRY) (Sisted)	cesses, and the places where these processes were performed mu	ust be given. See instructions	for details.)	
EphoDuction for use of file form at space 10, and a check in one of the boxes here in space 8, constitutes a non-exclusive grant of permission to the Library of Congress to reproduce and distribute solely fig. the bind and physically handicapped and under the conditions and limitations prescribed by the regulations of the Copyright Office: (1) copies of the work identified in space 1 of this application in Braille (or similar tactile symbols), or (2) phonorecords embodying a fixation of a reading of that work, or (3) both. **EPPOSIT ACCOUNT: (if the registration fee is to be charged to a become established in the Copyright Office, give name and underest of account established in the Copyright Office, give name and didress 1916. Race. Street **Robert L. Meltzer, ASTM Address 1916 Race Street **Cocount Number: Phila: (lphia, Pennsylvania 19103 (State) **Particular Conference of the copyright claimant Downer of exclusive right(s) (State) **ERRIFICATION *** (it understopred, hereby certify that is mather: (Check one) American Society for Testing and Materials **Grant Country Congress to the copyright claimant Downer of exclusive right(s) (State) **Flaodwritten signature: (X) Advisory Date of my knowledge. **Flaodwritten signature: (X) Advisory Date of my knowledge. **Typed or printed name. Robert L. Meltzer Date 3//4/78 **MAIL	NAMES OF MANUFACTURERS		PLACES OF MANUFACTURE	Menute
EPRODUCTION FOR USE OF BLIND OR PHYSICALLY-HANDICAPPED PERSONS: (See instructions) * Signature of this form at space 10, and a check in one of the boxes here in space 8, constitutes a non-exclusive grant of permission to the Library of Congress to reproduce and distribute solely fig-fite blind and physically handicapped and under the conditions and limitations prescribed by the regulations of the Copyright Office: (I) copies of the work identified in space 1 of this application in Braille (or similar tactile symbols); or (2) phonorecords embodying a fixation of a reading of the work, or (3) both. **ECOPIES ACCOUNT: (If the registration fee is to be charged to a Deposit Account established in the Copyright Office, give name and unmber of Account.) **Name: Robert L. Meltzer, ASTM Address-1916 Race Street **Phila(lphia, Pennsylvania 19103) **ERREPICATION: ** (the undersigned, hereby certify that famthe: (Check one) American Society for Testing and Materials **Glauthor Cother copyright claims of Society right(s) Bauthotized agent of the work identified in this application and that the statements made by mg in this application are correct to the best of my knowledge. **Handwritten signature: (X) **Mail J. Meltzer** Typed or printed name. Robert L. Meltzer** **Date: 3//4/8 **MAIL** **MAIL*				ing
Signature of this form at space 10, and a check in one of the boxes here in space 8, constitutes a non-exclusive grant of permission to the Library of Congress to reproduce and distribute soleth for the blind and physically handicapped and under the conditions and limitations prescribed by the regulations of the Coppright Office: (1) copies of the work identified in space 1 of this application in Braille (or similar tactile symbols); or (2) phonorecords embodying a fixation of a reading of that work, or (3) both. *ECOPIES and phonorecords** **DEPOSIT ACCOUNT: (if the registration fee is to be charged to a Deposit Account established in the Copyright Office, give name and unable of Account.) **Name: Robert L. Meltzer, ASTM Address:1916 Race Street **Phila** **Phila** **Phila** **Phila** **Iphila** **Iphila** **Phila** **Iphila** **	everly Press, Inc.	Easton,	Maryland	
**Signature of this form at space 10, and a check in one of the boxes here in space 8, constitutes a non-exclusive grant of permission to the Library of Congress to reproduce and district shall be shal	Andrew Comment of the contract	more in the second seco	Section of the sectio	
Signature of this form at space 10, and a check in one of the boxes here in space 8, constitutes a non-exclusive grant of permission to the Library of Congress to reproduce and distribute solely for the blind and physically handicapped and under the conditions and limitations prescribed by the regulations of the Copyright Office: (1) copies of the work identified in space 1 of this application in Braille (or similar tactile symbols); or (2) phonorecords embodying a fixation of a reading of that work; or (3) both. BE Copies and phonorecords B Copies Only CORRESPONDENCE: (Give name and address to which correspondence about this application should be sent.) Name: RODERT, L., Meltzer, ASTM. Address: 1916 Race Street Phila lphia, Pennsylvania (3) 103 CORRESPONDENCE: (Give name and address to which correspondence about this application should be sent.) Name: RODERT, L., Meltzer, ASTM. Address: 1916 Race Street Phila lphia, Pennsylvania (3) 103 CORRESPONDENCE: (Give name and address to which correspondence about this application should be sent.) Name: RODERT, L., Meltzer, ASTM. Address: 1916 Race Street Phila lphia, Pennsylvania (3) 103 CORRESPONDENCE: (Give name and address to which correspondence about this application should be sent.) Name: RODERT, L., Meltzer, ASTM. Address: 1916 Race Street Phila lphia, Pennsylvania (3) 103 CORRESPONDENCE: (Give name and address to which correspondence about this application should be sent.) Name: RODERT, L., Meltzer, ASTM. Address: 1916 Race Street Phila lphia, Pennsylvania (3) 103 Correction of the work identified in this application and that the statements made by me in this application are correct to the best of my knowledge. Handwritten signature: (X) As				
reproduce and distribute solely fir the bind and physically handicapped and under the conditions and limitations prescribed by the regulations of the Copyright Office. (I) copies of the work identified in space 1 of this application in Braille (or similar tactile symbols); or (2) phonorecords embodying a fixation of a reading of that work; or (3) both. a Copies and phonorecords b Copies Only c Phonorecords Only CORRESPONDENCE: (Give name and address to which correspondence about this application should be sent.) Name: Robert L. Meltzer, ASTM Address: 1916 Race Street Phila Iphia, Pennsylvania 10103 (CRY) Correspondence of without printing and Materials (Name of suchor or other copyright claimant or owner of exclusive right(s) authorized agent of the work identified in this application and that the statements made by mg in this application are correct to the best of my knowledge. Typed or printed name. Robert L. Meltzer Date 3/14/78 MAIL	ODUCTION FOR USE OF BLIND OR PHYSICALLY-HAN	IDICAPPED PERSONS: (See instructions)	TO
reproduce and distribute solely fir the bind and physically handicapped and under the conditions and limitations prescribed by the regulations of the Copyright Office. (I) copies of the work identified in space 1 of this application in Braille (or similar tactile symbols); or (2) phonorecords embodying a fixation of a reading of that work, or (3) both. a Copies and phonorecords b Copies Only c Phonorecords Only CORRESPONDENCE: (Give name and address to which correspondence about this application should be sent.) Name: Robert L. Meltzer, ASTM Address: 1916 Race Street Phila Iphia, Pennsylvania Tolios (City) Correspondence of without supplied in the copyright office, give name and clares about this application should be sent.) Phila Iphia, Pennsylvania Tolios (City) Correspondence of the work identified in this application and that the statements made by mg in this application are correct to the best of my knowledge. Typed or printed name. Robert L. Meltzer Date 3/14/78 MAIL		1 and 1 2 and 1 and 1 and 1		(8
fice: (1) copies of the work identified in space 1 of this application in Braille (or similar tactile symbols); or (2) phonorecords embodying a fixation of a reading of that work, or (3) both. a Copies and phonorecords b Copies Only c Phonorecords Only DEPOSIT ACCOUNT: (if the registration fee is to be charged to a Deposit Account established in the Copyright Office, give name and number of Account.) Name: Robert L. Meltzer, ASTM Address:1916 Race Street Phila(lphia, Pennsylvania 19103 (State) Deposit Account Number: Robert L. Meltzer, ASTM Address:1916 Race Street Phila(lphia, Pennsylvania 19103 (State) Corrections of the unidensigned, hereby certify that I am the: (Check one) American Society for Testing and Materials of the work identified in this application and that the statements made by me in this application are correct to the best of my knowledge. Flandwritten signature: (X) Assume that the statements made by me in this application are correct to the best of my knowledge. Typed or printed name. Robert L. Meltzer Date 3//4/76 MAIL	Signature of this form at space 10, and a check in one of the boxes her	re in space 8, constitutes a non-	exclusive grant of permission to the Library of Congress	W I
DEPOSIT ACCOUNT: (If the registration fee is to be charged to a Deposit Account established in the Copyright Office, give name and name and address to which correspondence about this application should be sent.) Name: Robert L. Meltzer, ASTM Address: 1916 Race Street Phila: Iphia, Pennsylvania 19103 [State] Date 3//4/78 Handwritten signature: (X) Typed or printed name. Robert L. Meltzer Date 3//4/78 MAIL	fice: (1) copies of the work identified in space 1 of this application in Br	aille (or similar tactile symbols);	or (2) phonorecords embodying a fixation of a reading	of
DEPOSIT ACCOUNT: (If the registration fee is to be charged to a Deposit Account established in the Copyright Office, give name and number of Account Number. CORRESPONDENCE: (Give name and address to which correspondence about this application should be sent.) Name: ROBERT L. Meltzer, ASTM	that work; or (3) both		, , , , , , , , , , , , , , , , , , ,	FOR
DEPOSIT ACCOUNT: (If the registration fee is to be charged to a Deposit Account established in the Copyright Office, give name and dence about this application should be sent.) Name: Robert L. Meltzer, ASTM Address:1916 Race Street Phila(lphia, Pennsylvania (Z**) CERTIFICATION: I, the undersigned, hereby certify that I am the: (Check one) American Society for Testing and Materials (Name of author or other copyright claimant Downer of exclusive right(s) (Bauthorized agent of: (Name of author or other copyright claimant, or owner of exclusive right(s)) Typed or printed name. Robert L. Meltzer Date 3/14/78 MAIL	A Codemonate History Code Code Code Code Code Code Code Code	C Contin Only	2 C Pt	FILLITOR
DEPOSIT ACCOUNT: If the registration fee is to be charged to a dence about this application should be sent.) Name: Robert L. Meltzer, ASTM Address: 1916 Race Street Phila lphia, Pennsylvania (2*) Century Cation: It is undersigned, hereby certify that I am the: (Check one) American Society for Testing author other copyright claimant. Society of the work identified in this application and that the statements made by me in this application are correct to the best of my knowledge. Typed or printed name. Robert L. Meltzer Date 3//4/78 MAIL		Copies Only	C LI Prionorecords Only	
dence about this application should be sent.) Name: ROBERT L. Meltzer, ASTM Address: 1916 Race Street Phila (lphia, Pennsylvania 19103 (City) ERTIFICATION: 1, the undersigned, hereby certify that I am the: (Check one) American Society for Testing and Materials and Materials (Name of author or other copyright claimant. or owner of exclusive right(s)) Address: 1916 Race Street Phila (lphia, Pennsylvania 19103) (City) ERTIFICATION: 1, the undersigned, hereby certify that I am the: (Check one) American Society for Testing and Materials (Name of author or other copyright claimant, or owner of exclusive right(s)) If the work identified in this application and that the statements made by me in this application are correct to the best of my knowledge. Flandwritten signature: (X) Typed or printed name. Robert L. Meltzer Date 3//4/78 MAIL	Description of the second control of the sec			
Name: Robert L. Meltzer, ASTM Address: 1916 Race Street Phila(lphia, Pennsylvania (24) ERTEPICATION: If the undersigned, hereby certify that I am the (Check one) American Society for Testing Outhor Other copyright distinant Downer of exclusive right(s) Mauthorized agent of: (Name of author or other copyright claimant, or owner of exclusive right(s)) If the work identified in this application and that the statements made by mg in this application are correct to the best of my knowledge. Typed or printed name. Robert L. Meltzer MAIL MAIL		a CORRESPONDEN	ICE: (Give name and address to which correspon	
Phila(lphia, Pennsylvania 19103 (City) ERTIFICATION: I, the undersigned, hereby certify that I am the: (Check one) American Society for Testing Gauthor Gother copyright claimant. Bowner of exclusive right(s) Mauthorized agent of: (Name of suthor or other copyright claimant, or owner of exclusive right(s)) of the work identified in this application and that the statements made by mg in this application are correct to the best of my knowledge. Flandwritten signature: (X). Typed or printed name. Robert L. Meltzer Date 3//4/78 MAIL	in Account established in the Copyright Office, give name and	dence about this appl	ication should be sent.)	(9
Phila(lphia, Pennsylvania 19103 (CP) CERTIFICATION: I, the undersigned, hereby certify that I am the: (Check one) American Society for Testing and Materials [Name of suthor of other copyright claimant. of owner of exclusive right(s) Mauthorized agent of: [Name of suthor or other copyright claimant, or owner of exclusive right(s) of the work identified in this application and that the statements made by me in this application are correct to the best of my knowledge. [Handwritten signature: (X) April 2				
CRY) (State) (ZP) CERTIFICATION: It, the undersigned, hereby certify that I am the: (Check one) American Society for Testing Dauthor Dother copyright deliment Downer of exclusive right(s) Quathorized agent of: (Name of suthor or other copyright deliment, or owner of exclusive right(s)) (Name of suthor or other copyright deliment, or owner of exclusive right(s)) (Name of suthor or other copyright deliment, or owner of exclusive right(s)) (Name of suthor or other copyright deliment, or owner of exclusive right(s)) (Name of suthor or other copyright deliment, or owner of exclusive right(s)) (Name of suthor or other copyright deliment, or owner of exclusive right(s)) (Name of suthor or other copyright deliment, or owner of exclusive right(s)) (Name of suthor or other copyright deliment, or owner of exclusive right(s)) (Name of suthor or other copyright deliment, or owner of exclusive right(s)) (Name of suthor or other copyright deliment, or owner of exclusive right(s)) (Name of suthor or other copyright deliment, or owner of exclusive right(s)) (Name of suthor or other copyright deliment, or owner of exclusive right(s)) (Name of suthor or other copyright deliment, or owner of exclusive right(s)) (Name of suthor or other copyright deliment, or owner of exclusive right(s)) (Name of suthor or other copyright deliment, or owner of exclusive right(s)) (Name of suthor or other copyright deliment, or owner of exclusive right(s)) (Name of suthor or other copyright deliment, or owner of exclusive right(s) (Name of suthor or other copyright deliment, or owner of exclusive right(s) (Name of suthor or other copyright deliment, or owner of exclusive right(s) (Name of suthor or other copyright deliment, or owner of exclusive right(s) (Name of suthor or other copyright deliment, or owner of exclusive right(s) (Name of suthor or other copyright deliment, or owner or other copyright deliment, or		Address: 1916 R		Fee a
City) (State) (ZP) ENTIFICATION: It, the undersigned, hereby certify that I am the: (Check one) American Society for Testing and Materials (Name of suthor or other copyright claimant. or owner of exclusive right(s)) and that the statements made by me in this application are correct to the best of my knowledge. Flandwritten signature: (X). Typed or printed name. Robert L. Meltzer Date 3//4/78 MAIL	nt Number	Philac 1	phia Pennsylvania 1910	03 Correct
Dauthor Dother copyright claimant Movemen of exclusive right (s) Mauthorized agent of: (Name of author or other copyright claimant, or owner of exclusive right(s)) (Name of author or other copyright claimant, or owner of exclusive right(s)) (Name of author or other copyright claimant, or owner of exclusive right(s)) (Name of author or other copyright claimant, or owner of exclusive right(s)) (Name of author or other copyright claimant, or owner of exclusive right(s)) (Name of author or other copyright claimant, or owner of exclusive right(s)) (Name of author or other copyright claimant, or owner of exclusive right(s)) (Name of author or other copyright claimant, or owner of exclusive right(s)) (Name of author or other copyright claimant, or owner of exclusive right(s)) (Name of author or other copyright claimant, or owner of exclusive right(s)) (Name of author or other copyright claimant, or owner of exclusive right(s)) (Name of author or other copyright claimant, or owner of exclusive right(s)) (Name of author or other copyright claimant, or owner of exclusive right(s)) (Name of author or other copyright claimant, or owner of exclusive right(s)) (Name of author or other copyright claimant, or owner of exclusive right(s)) (Name of author or other copyright claimant, or owner of exclusive right(s)) (Name of author or other copyright claimant, or owner of exclusive right(s)) (Name of author or other copyright claimant, or owner of exclusive right(s)) (Name of author or other copyright claimant, or owner of exclusive right(s)) (Name of author or other copyright claimant, or owner of exclusive right(s)) (Name of author or other copyright claimant, or owner of exclusive right(s)) (Name of author or other copyright claimant, or owner of exclusive right(s)) (Name of author or other copyright claimant, or owner or other claimant, or owner or other claimant, or owner or other claimant,	THE STATE OF THE PARTY OF THE STATE OF THE S	(City)	(State) (ZP)	
Dauthor Dother copyright claimant Downer of exclusive right(s) Mauthorized agent of: (Name of author or other copyright claimant, or owner of exclusive right(s)) (Name of author or other copyright claimant, or owner of exclusive right(s)) (Name of author or other copyright claimant, or owner of exclusive right(s)) (Name of author or other copyright claimant, or owner of exclusive right(s)) (Name of author or other copyright claimant, or owner of exclusive right(s)) (Name of author or other copyright claimant, or owner of exclusive right(s)) (Name of author or other copyright claimant, or owner of exclusive right(s)) (Name of author or other copyright claimant, or owner of exclusive right(s)) (Name of author or other copyright claimant, or owner of exclusive right(s)) (Name of author or other copyright claimant, or owner of exclusive right(s)) (Name of author or other copyright claimant, or owner of exclusive right(s)) (Name of author or other copyright claimant, or owner of exclusive right(s)) (Name of author or other copyright claimant, or owner of exclusive right(s)) (Name of author or other copyright claimant, or owner of exclusive right(s)) (Name of author or other copyright claimant, or owner of exclusive right(s)) (Name of author or other copyright claimant, or owner of exclusive right(s)) (Name of author or other copyright claimant, or owner of exclusive right(s)) (Name of author or other copyright claimant, or owner of exclusive right(s)) (Name of author or other copyright claimant, or owner of exclusive right(s)) (Name of author or other copyright claimant, or owner of exclusive right(s)) (Name of author or other copyright claimant, or owner of exclusive right(s)) (Name of author or other copyright claimant, or owner of exclusive right(s)) (Name of author or other copyright claimant, or owner of exclusive right(s)) (Name of author or other copyright claimant, or owner or other copyright claimant, or owner or other claimant, or owner or other claimant, or owner or other claimant,	FICATION: # I, the undersioned, hereby certify that I am the	(Check one) Americ	an Society for Testing	1
(Name of author or other copyright claimant, or owner of exclusive right(s)) of the work identified in this application and that the statements made by me in this application are correct to the best of my knowledge. Handwritten signature: (X)				10
Handwritten signature: (X) Robert J. Muly Typed or printed name. Robert L. Meltzer Date 3/14/78 MAIL		(Name of a	Buthor or other copyright claimant, or owner of exclusive rightfall	
Typed or printed name. Robert L. Meltzer Date 3/14/78	work identified in this application and that the statements made b	11 11 11 11		Certific
Typed or printed name Robert L. Meltzer Date 3/14/78 MAIL	Handusitton stroature (V)	Kober IV	2ctfr	(Applie
MAIL			- 1	mount
MAIL	Typed or printed name R	Robert I. Malt	Zer Date 3//4/78	
	A Committee of the Angelow Statement	AND ALTERNATIONS	202	
		manuscripturas de la companya de la contrata de la		
		TELEPIN TO	MAH	(11
American Society icr Testing and Materials CENTIFICATE Ad		(O = = 1 - 1		
1 40 C 20 C	American Society for	resting and M		Addre
1010 Por	1010 8-2 04-24		TO	For Ret
1916 Race Street	Tale Race Street	partment Numbers		Certific
State Language Continue Contin	The 1 and 1	and the second	1Cartiffacto mitt	- Cartille
Philadelphia Pennsylvania 19103 (Certificate will be mailed in		yania 191	US	1

17 USIC \$ 506(e): Any person who knowingly makes a false representation of a material fact in the application for copyright registration provided for by section 409, or in any written assument filed in connection with the application, shall be fined not more than \$2,500.

n U. S. GOVERNMENT PRINTING OFFICE : 1977 O - 248-641

CERTIFICATE OF FIEGISTRATION Document 198-7 Filed 10/07 ORTHOS

UNITED STATES COPYRIGHT OFFICE



EFFECTIVE DATE OF REGISTRATION

Month Day

Frequency of Publication \(\nbeggreentarrow\)

STATES COPYRICALLINA CIBRARY OF COT OFFICIAL SEAL

This Certificate issued under the seal of the Copyright Office in accordance with title 17, United States Code, attests that registration has been made for the work identified below. The information on this certificate has been made a part of the Copyright Office records.

> RĚGISTER OF COPYRIGHTS United States of America

DO NOT WRITE ABOVE THIS LINE. IF YOU NEED MORE SPACE, USE A SEPARATE CONTINUATION SHEET.

TITLE OF THIS SERIAL V

01.04

1999 Annual Book of ASTM Standards - STEL- STRENDER, REINFORCING, Pressure Vessel,

Date on Copies ▼

Volume V Number 🔻 01

JANVAR

Annual

PREVIOUS OR ALTERNATIVE TITLES \

	~ ~	NAME OF AUTHOR ▼		DATES OF BIR Year Born ▼	TH AND DEAT Year Die	
A.	a	Timer real sectory in	or Testing and Materials			
NOTE		Was this contribution to the work a "work made for hire"?	AUTHOR'S NATIONALITY OR DOMICILE Name of Country OR { Citizen of > United States	WAS THIS AUT THE WORK Anonymous? Pseudonymous?	☐ Yes ☐ No ☐ Yes ☐ No	RIBUTION TO If the answer to eith of these questions is "Yes." see detailed instructions.
Under the law,			briefly describe riature of the material created by this author in ntire Text	which copyright is cla	imed. ▼	
"work made for hire" is generally the employer, not the em-	Some	NAME OF AUTHOR ▼		DATES OF BIR Year Born ▼	TH AND DEAT Year Die	
ployee (see in- structions) For any part of this work that was "made for hire" check "Yes" in		Was this contribution to the work a Yes "work made for hire"? No	AUTHOR'S NATIONALITY OR DOMICILE Name of country OR Citizen of Domiciled in Domiciled in Domiciled	THE WORK Anonymous?	THOR'S CONTI	RIBUTION TO If the answer to eithe of these questions is "Yes," see detailed instructions
the space pro-			· · · · · · · · · · · · · · · · · · ·			
vided, give the employer (or			riefly describe nature of the material created by this author in	which copyright is cla	imed. ▼	
employer (or other person for whom the work was prepared) as "Author" of	C	NATURE OF AUTHORSHIP ☐ Collective Work Other: NAME OF AUTHOR ▼	riefly describe nature of the material created by this author in	which copyright is cla DATES OF BIRT Year Born ▼		
employer (or other person for whom the work was prepared)	C	Collective Work Other:	AUTHOR'S NATIONALITY OR DOMICILE Name of Country OR Citizen of Domiciled in Domicil	DATES OF BIRTYear Born V WAS THIS AUT THE WORK Anonymous?	TH AND DEATI Year Died THOR'S CONTI	RIBUTION TO If the answer to either of these questions is "Yes," see detailed
employer (or other person for whom the work was prepared) as "Author" of that part, and leave the space for dates of birth	C	Collective Work Other: NAME OF AUTHOR ▼ Was this contribution to the work a "work made for hire"? No NATURE OF AUTHORSHIP B	AUTHOR'S NATIONALITY OR DOMICILE Name of Country OR { Citizen of }	DATES OF BIRTYear Born V WAS THIS AUT THE WORK Anonymous? Pseudonymous?	TH AND DEATI Year Died THOR'S CONTI Yes \ No	RIBUTION TO If the answer to either of these questions is
employer (or other person for whom the work was prepared) as "Author" of that part, and leave the space for dates of birth	<i>C</i>	Collective Work Other: NAME OF AUTHOR ▼ Was this contribution to the work a "work made for hire"? No NATURE OF AUTHORSHIP Collective Work Other: YEAR IN WHICH CREATION (ISSUE WAS COMPLETED This must	AUTHOR'S NATIONALITY OR DOMICILE Name of Country OR Citizen of Domiciled in Domi	DATES OF BIRTYear Born Y WAS THIS AUT THE WORK Anonymous? Pseudonymous? which copyright is clai	TH AND DEATI Year Died THOR'S CONTI Yes □ No □ Yes □ No med. ▼ IS PARTICULA	RIBUTION TO If the answer to either of these questions is "Yes," see detailed instructions. RISSUE

before completing this space

society for Testing & Materials 100 Barr Harbor Drive West Conshohocken, PA 19428-2959

TRANSFER If the claimant(s) named here in space 4 are different from the author(s) named in space 2, give a brief statement of how the claimant(s) obtained ownership of the copyright.

TWO DEPOSITS RECEIVED

WAR 1 2. 1000

REMITTANCE NUMBER AND DATE ႙ၟႜၓ

MORE ON BACK ▶

Complete all applicable spaces (numbers 5-11) on the reverse side of this page

See detailed instructions

Sign the form at line 10

DO NOT WRITE HERE

		Profesional recognications
	(EXAMINED BY)	FORM SE
	CHEEKED BY	
	- (MILL)	
	CORRESPONDENCE Yes	FOR COPYRIGHT
		OFFICE USE
•		ONLY
	DO NOT WRITE ABOVE THIS LINE. IF YOU NEED MORE SPACE, USE A SEPARATE CONTINUATION SHEET.	
PREVIOUS RE	GISTRATION Has registration for this issue, or for an earlier version of this particular issue, already been made in the Copyright Office?	
	If your answer is "Yes," why is another registration being sought? (Check appropriate box) ▼	
	first published version of an issue previously registered in unpublished form. first application submitted by this author as copyright claimant.	
	anged version of this issue, as shown by space 6 on this application.	
	"Yes." give: Previous Registration Number ♥ Year of Registration ♥	
	WORK OR COMPILATION Complete both space 6a & 6b for a derivative work; complete only 6b for a compilation. **Interial** Identify any preexisting work or works that this work is based on or incorporates. **	
	nual Book of ASTM Standards, Section 01 , Volume 01,06	
		See instruction
. Material Add Compileati	led to This Work Give a brief, general statement of the material that has been added to this work and in which copyright is claimed.▼ ion of previous published text plus additional text.	See instructions before completing this space.
		энэ эрисс.

	space deleted	
REPRODUCTI	ON FOR USE OF BLIND OR PHYSICALLY HANDICAPPED INDIVIDUALS A signature on this form at space 10, and a	······································
theck in one of the and physically har	e boxes here in space 8, constitutes a non-exclusive grant of permission to the Library of Congress to reproduce and distribute solely for the blind indicapped and under the conditions and limitations prescribed by the regulations of the Copyright Office: (1) copies of the work identified in space	.
of this application	on in Braille (or similar tactile symbols); or (2) phonorecords embodying a fixation of a reading of that work; or (3) both.	
2 .	★ Copies and Phonorecords b □ Copies Only c □ Phonorecords Only	See instructions
DEPOSIT ACC	COUNT If the registration fee is to be charged to a Deposit Account established in the Copyright Office, give name and number of Account.	Alla
Name ▼ AITI	rerican Society for Account Number V	
	DENCE Give name and address to which correspondence about this application should be sent. Name/Address/Apt/City/State/Zip ▼	
	Meltzer, ASTM	
		•
	Harbor Drive	Be sure to
	shohocken, PA 19428-2959	give your
		give your
Dest Cons	Shohacken, PA 19428-2959 Area Code & Telephone Number > 610-832-9632	give your daytime phone ■ number.
Dest Cons	Area Code & Telephone Number 6 10-832-9632 ON* I, the undersigned, hereby certify that I am the other copyright claimant	give your daytime phone ■ number.
Dest Cons	Area Code & Telephone Number 610-832-9632 ON* 1, the undersigned, hereby certify that I am the Check one 610-832-9632 Check one 610-832-9632 Area Code & Telephone Number 610-832-9632 Area Code & Telephone Number 610-832-9632	give your daytime phone ■ number.
Dest Cons	Area Code & Telephone Number Area Code & Telephone Number	give your daytime phone ■ number.
Dest Cons	Area Code & Telephone Number 610-832-9632 DN* I, the undersigned, hereby certify that I am the Check one Check one will be author owner of exclusive right(s) Check one will be author owner of exclusive right(s) Tor Testing and Materials Name of author or other copyright claimant, or owner of exclusive right(s) Name of author or other copyright claimant, or owner of exclusive right(s) Name of author or other copyright claimant, or owner of exclusive right(s) Name of author or other copyright claimant, or owner of exclusive right(s) Name of author or other copyright claimant, or owner of exclusive right(s) Name of author or other copyright claimant, or owner of exclusive right(s) Name of author or other copyright claimant, or owner of exclusive right(s) Name of author or other copyright claimant, or owner of exclusive right(s) Name of author or other copyright claimant, or owner of exclusive right(s) Name of author or other copyright claimant, or owner of exclusive right(s) Name of author or other copyright claimant, or owner of exclusive right(s) Name of author or other copyright claimant, or owner of exclusive right(s) Name of author or other copyright claimant, or owner of exclusive right(s) Name of author or other copyright claimant, or owner of exclusive right(s) Name of author or other copyright claimant, or owner of exclusive right(s) Name of author or other copyright claimant, or owner of exclusive right(s) Name of author or other copyright claimant, or owner of exclusive right(s) Name of author or other copyright claimant, or owner of exclusive right(s) Name of author or other copyright claimant, or owner of exclusive right(s) Name of author or other copyright claimant, or owner of exclusive right(s) Name of author or other copyright claimant, or owner of exclusive right(s) Name of author or other copyright claimant, or owner of exclusive right(s) Name of author or other copyright claimant, or owner of exclusive right(s) Name of author or other copyr	give your daytime phone ■ number.
CERTIFICATIOn of the work identity me in this appl	Area Code & Telephone Number 610-832-9632 ON* I, the undersigned, hereby certify that I am the Check one Check one wifeed in this application and that the statements made lication are correct to the best of my knowledge. Name and date If this application gives a date of publication in space 3, do not sign and submit it before that date.	give your daytime phone ■ number.
CERTIFICATIOn of the work identity me in this appl	Area Code & Telephone Number 610-832-9632 DN* I, the undersigned, hereby certify that I am the Check one Check one will be author owner of exclusive right(s) Check one will be author owner of exclusive right(s) Tor Testing and Materials Name of author or other copyright claimant, or owner of exclusive right(s) Name of author or other copyright claimant, or owner of exclusive right(s) Name of author or other copyright claimant, or owner of exclusive right(s) Name of author or other copyright claimant, or owner of exclusive right(s) Name of author or other copyright claimant, or owner of exclusive right(s) Name of author or other copyright claimant, or owner of exclusive right(s) Name of author or other copyright claimant, or owner of exclusive right(s) Name of author or other copyright claimant, or owner of exclusive right(s) Name of author or other copyright claimant, or owner of exclusive right(s) Name of author or other copyright claimant, or owner of exclusive right(s) Name of author or other copyright claimant, or owner of exclusive right(s) Name of author or other copyright claimant, or owner of exclusive right(s) Name of author or other copyright claimant, or owner of exclusive right(s) Name of author or other copyright claimant, or owner of exclusive right(s) Name of author or other copyright claimant, or owner of exclusive right(s) Name of author or other copyright claimant, or owner of exclusive right(s) Name of author or other copyright claimant, or owner of exclusive right(s) Name of author or other copyright claimant, or owner of exclusive right(s) Name of author or other copyright claimant, or owner of exclusive right(s) Name of author or other copyright claimant, or owner of exclusive right(s) Name of author or other copyright claimant, or owner of exclusive right(s) Name of author or other copyright claimant, or owner of exclusive right(s) Name of author or other copyright claimant, or owner of exclusive right(s) Name of author or other copyr	give your daytime phone ■ number
CERTIFICATIOn the work identity me in this applementation of the work identity me in the control of the work identity me in this applementation of the work identity me in this applementation of the work identity me in this apple where we would be a supplementation of the work identity me in this apple where we would be a supplementation of the work identity me in this apple where we would be a supplementation in the work identity me in this apple where we would be a supplementation in the work identity me	Area Code & Telephone Number 610-832-9632 ON* 1, the undersigned, hereby certify that I am the Check one Check on	give your daytime phone ■ number.
CERTIFICATIOn the work identity me in this applementation of the work identity me in the control of the work identity me in this applementation of the work identity me in this applementation of the work identity me in this apple where we would be a supplementation of the work identity me in this apple where we would be a supplementation of the work identity me in this apple where we would be a supplementation in the work identity me in this apple where we would be a supplementation in the work identity me	Area Code & Telephone Number 610-832-9632 ON* I, the undersigned, hereby certify that I am the Check one Check one wifeed in this application and that the statements made lication are correct to the best of my knowledge. Name and date If this application gives a date of publication in space 3, do not sign and submit it before that date.	give your daytime phone ■ number.
CERTIFICATIOn of the work identity me in this apple Pyped or printed Robert 1	Area Code & Telephone Number	give your daytime phone
Dest Cons CERTIFICATIO of the work identify me in this appl Typed or printed Robert I	Area Code & Telephone Number 610-832-9632 ON* I, the undersigned, hereby certify that I am the Check one Check one Check one Check one Governments made lication are correct to the best of my knowledge.	give your daytime phone ◀ number
CERTIFICATIOn of the work identity me in this apple Pyped or printed Robert 1	Area Code & Telephone Number > 610-832-9632 DN* I, the undersigned, hereby certify that I am the Check one >	give your daytime phone ◀ number
Dest Cons CERTIFICATIO of the work identicy me in this appl Pyped or printed Rober t I	Area Code & Telephone Number 610-832-9632 ON* I, the undersigned, hereby certify that I am the Check one Gifed in this application and that the statements made lication are correct to the best of my knowledge. Iname and date If this application gives a date of publication in space 3, do not sign and submit it before that date. Iname Inam	give your daytime phone
CERTIFICATIOns the work identity me in this applement to the Robert I	Area Code & Telephone Number > 610-832-9632 DN* 1, the undersigned, hereby certify that I am the Check one > Chec	Give your daytime phone
CERTIFICATION of the work identity me in this appl Opped or printed in the company of the work identity me in this appl Opped or printed in the company of the work identity me in this appl Opped or printed in the company of the work identity me in this appl Opped or printed in the company of the work identity me in this appl MAIL CERTIFICATE TO Certificate	Area Code & Telephone Number > 610-832-9632 DN* 1, the undersigned, hereby certify that I am the Check one > Chec	Give your daylime phone

connection with the application, shall be fined not more than \$2,500.

June 1992-50,000

☆U.S. GOVERNMENT PRINTING OFFICE: 1992—312-432/80,002

CERTIFICATE OF COPYR 1245 REGISTER ATION 8-7 Filed 10/07/19 Page 9 of 49FORM TX

UNITED STATES COPYRIGHT OFFICE

This certificate, issued under the seal of the Copyright Office in accordance with the provisions of section 410(a) of title 17, United States Code, attests that copyright registration has been made for the work identified below. The information in this certificate has been made a part of the Copyright Office records.

REGISTER OF COPYRIGHTS
United States of America

REGISTRATIO	N NUMBER
TX	464 - 573
	E OF REGISTRATION
Month	Day Year

		DO NOT WRITE ABOVE THIS LINE. IF YOU NEED	MORE SPACE, USE C	ONTINUATIO	ON SHEET
1	Pa	EOFTHIS WORK: 1980 Annual Book of ASTM Start 4, Steel-Structural, Reinforcing, Preailway; Fasteners		PREVIOUS O	R ALTERNATIVE TITLES:
Title		riodical or serial give: Vol No			
	PUB:	LICATION AS A CONTRIBUTION: (If this work was published as a ollective work in which the contribution appeared.)	contribution to a periodica	al, serial, or coll	ection, give information about
,	l .	f Collective Work:	Vol No Dat	ρ	Pages
	,				
(2)		WPORTANT: Under the law, the "author" of a "work made for hire" is g was "made for hire" check "Yes" in the space provided, of that part, and leave the space for dates blank.	enerally the employer, not th give the employer (or other p	e employee (see erson for whom	the work was prepared) as "Author"
Author(s)		NAME OF AUTHOR: American Society for Test	ing and Materi	als	DATES OF BIRTH AND DEATH:
		Was this author's contribution to the work a "work made for hire"? Ye	es. X No		Born Died (Year)
	1	AUTHOR'S NATIONALITY OR DOMICILE:	II S A	WAS THIS A	UTHOR'S CONTRIBUTION TO
		Citizen of	(Name of Country)	Anonymo Pseudony	ous? Yes No mous? Yes No
		Action of: (Briefly describe nature of this author's contribution)		If the answe	r to either of these questions is illed instructions attached.
		NAME OF AUTHOR:			DATES OF BIRTH AND DEATH:
		Was this author's contribution to the work a "work made for hire"? Ye	es No		Born Died (Year)
		AUTHOR'S NATIONALITY OR DOMICILE:	-	WAS THIS A	UTHOR'S CONTRIBUTION TO
	2	Citizen of	(Name of Country)	Anonymo	ous? Yes No
		AUTHOR OF: (Briefly describe nature of this author's contribution)	· · · · · · · · · · · · · · · · · · ·	1	mous? Yes No r to either of these questions is
		NAME OF AUTHOR:		"Yes, see deta	illed instructions attached. DATES OF BIRTH AND DEATH:
					Born Died
		Was this author's contribution to the work a "work made for hire"? Ye AUTHOR'S NATIONALITY OR DOMICILE:	s No	WAS THIS AL	(Year) (Year) UTHOR'S CONTRIBUTION TO
	3	Citizen of	•••••	THE WORK:	
		(Name of Country) AUTHOR OF: (Briefly describe nature of this author's contribution)	(Name of Country)	Anonymo Pseudony	ous? Yes No mous? Yes No
					r to either of these questions is liled instructions attached.
	YFAL	IN WHICH CREATION OF THIS WORK WAS COMPLETED:	DATE AND NATION O		
(3)		when the mover may work was come belief.	Date. Februa	ry	29 1980
Creation		Year. 1980	() 	Month) States	(Day) (Year)
and Publication			rution	(Name of C	•
		(This information must be given in all cases.)	(Complete this b	lock ONLY if this	work has been published.)
	NAM	E(S) AND ADDRESS(ES) OF COPYRIGHT CLAIMANT(S):			
4		merican Society for Testing and Materials			
:Claimant(s)		16 Race Street			
	Ph —	iladelphia, PA. 19103			
		NSFER: (If the copyright claimant(s) named here in space 4 are differen	t from the author(s) name	ed in space 2, g	give a brief statement of how the
	ciaima	ant(s) obtained ownership of the copyright.)			
Complete all app	olicable	spaces (numbers 5-11) on the reverse side of this page	1		DO NOT WRITE HERE

• Follow detailed instructions attached

• Sian the form at line 10

Page 1 of pages

Case 1:13-cv-01215-TSC Doc	umane 198	eph 0/07/19 Frage	e 10 of 49	
·	CHECKED BY:	RI II. Z J-U - U		
	CORRESPONDENCE: Yes	APR 2 1 1980	APR 211980	FOR COPYRIGHT OFFICE
	DEPOSIT ACCOUNT FUNDS USED:	REMITTANCE NUMBER AND	DATĘ	USE ONLY
TX 464-5 7 3		217631	APR 2180	
DO NOT WRITE ABOVE THIS LINE. IF YOU NEED AD PREVIOUS REGISTRATION:	DITIONAL SPACE, US	E CONTINUATION SHEE	T (FORM TX/CO	۷)
Has registration for this work, or for an earlier version of this work, already be If your answer is "Yes," why is another registration being sought? (Check app This is the first published edition of a work previously registered in unput This is the first application submitted by this author as copyright claimant This is a changed version of the work, as shown by line 6 of this application. If your answer is "Yes," give: Previous Registration Number. TX 243	oropriate box) blished form. t. on.			Previous Registra- tion
COMPILATION OR DERIVATIVE WORK: (See instructions)				
PREEXISTING MATERIAL: (Identify any preexisting work or works that this				6 Compilation
<pre>{ 1979 Annual Book of ASTM Standards, MATERIAL ADDED TO THIS WORK: (Give a brief, general statement of the</pre>	e material that has been added	to this work and in which copyrigi	ht is claimed.)	or Derivative Work
MANUFACTURERS AND LOCATIONS: (If this is a published work commany require that the copies be manufactured in the United States or Canada tain processes, and the places where these processes were performed must be NAMES OF MANUFACTURERS Waverly Press, Inc.	a for full protection. If so, the pe given. See instructions fo P	e names of the manufacturers	who performed cer-	7 Manufactur- ing
Signature of this form at space 10, and a check in one of the boxes here in reproduce and distribute solely for the blind and physically handicapped and fice: (1) copies of the work identified in space 1 of this application in Braille (that work; or (3) both.	space 8, constitutes a non-excl under the conditions and limite	usive grant of permission to the I	s of the Copyright Of- xation of a reading of	B License For Handicapped
DEPOSIT ACCOUNT: (If the registration fee is to be charged to a Deposit Account established in the Copyright Office, give name and number of Account.) Name: Account Number:	dence about this applica-	Meltzer, ASTM Street	which correspon-	9 Fee and Correspond- ence
CERTIFICATION: * I, the undersigned, hereby certify that I am the: (Che author of other copyright claimant owner of exclusive right(s) authorized to of the work identified in this application and that the statements made by the Handwritten signature: (X)	agent of: Materials	if	r of exclusive right(s)	Certification (Application must be signed)
	nt Number)19103	CER MAY (Cer be windo	MAIL TIFICATE TO 3 0 1980 tificate will mailed in w envelope)	Address For Return of Certificate

^{* 17} U.S.C. § 506(e): Any person who knowingly makes a false representation of a material fact in the application for copyright registration provided for by section 409, or any written statement filed in connection with the application, shall be fined not more than \$2,500.

Case 1:13-cy-01215-TSC Document 198-7 Filed 10/07/19 Page 12 of 49 Certificate of Registration



Certification

This Certificate issued under the seal of the Copyright Office in accordance with title 17, United States Code, attests that registration has been made for the work identified below. The information on this certificate has been made a part of the Copyright Office records.

Registration Number TX 7-685-938

Effective date of registration:

March 5, 2013

Register of Copyrights, United States of America

Title ---Title of Work: ASTM A106/A106M-04b Standard Specification for Seamless Carbon Steel Pipe for High Temperature Service Completion/Publication · Year of Completion: 2004 Date of 1st Publication: December 1, 2004 Nation of 1st Publication: United States Author « Author: ASTM International Author Created: Entire Text Work made for hire: Yes Domiciled in: United States **Copyright claimant** Copyright Claimant: ASTM International 100 Barr Harbor Drive, West Conshohocken, PA, 19428, United States Limitation of copyright claim Material excluded from this claim: text Previous registration and year: TX 5-914-334 2004 TX 5-665-928 2003 New material included in claim: text, editing **Rights and Permissions** Organization Name: ASTM International Name: Kathleen Hooper Email: khooper@astm.org Telephone: 610-832-9634 Address: 100 Barr Harbor Drive West Conshohocken, PA 19428 United States

Case 1:13-cv-01215-TSC Document 198-7 Filed 10/07/19 Page 13 of 49

Name: Kathleen Hooper

Date: March 1, 2013



UNITED STATES COPYRIGHT OFFICE

REGISTRATION NUMBER



This Certificate issued under the seal of the Copyright Office in accordance with title 17, United States Code, attests that registration has been made for the work identified below. The information on this certificate has been made a part of the Copyright Office records.



EFFECTIVE DATE OF REGISTRATION

REGISTER OF COPYRIGHTS OFFICIAL SEAL United States of America DO NOT WRITE ABOVE THIS LINE. IF YOU NEED MORE SPACE, USE A SEPARATE CONTINUATION SHEET. TITLE OF THIS SERIAL Y 1998 Annual Book of ASTM Standards, Iron and Steel Products: Steel-Structural, Reinforcing, Pressure, Railway Number T Programmy of Publication V Date on Copies V 01.04 01 January 1998 Annual PREVIOUS OR ALTERNATIVE TITLES V NAME OF AUTHOR V DATES OF BIRTH AND DEATH Year Born American Society for Testing and Materials AUTHOR'S NATIONALITY OR DOMICILE WAS THIS AUTHOR'S CONTRIBUTION TO THE WORK Was this contribution to the work a ame of Country "work made for hire"? Citizen of Yes Anonymous? Yes No Domiciled in > United States Pacudonymous? Yes 🗍 No in NOTE NATURE OF AUTHORSHIP Briefly describe n ture of the material created by this author in which copyright is claimed. Other: Entire Text the "author" of a "work made for hire" is generally the employer, NAME OF AUTHOR V DATES OF BIRTH AND DEATH Year Born ▼ Year Die not the em ployee (see in-structions). For any part of this AUTHOR'S NATIONALITY OR DOMICILE Was this contribution to the work a WAS THIS AUTHOR'S CONTRIBUTION TO THE WORK No "Yes," see detail work made for hire"? ork that was ade for hire" ack "Yes" in Yes Citizen of Anonymous? Yes 🗌 Yes 🗂 ☐ No Domiciled in D Pseudonymous? No f he space pro-ided, give the employer (or NATURE OF AUTHORSHIP Briefly describe nature of the material created by this author in which copyright is claimed. Collective Work erenn fo whom the work NAME OF AUTHOR Y DATES OF BIRTH AND DEATH Year Born V Year Died V hat part, and WAS THIS AUTHOR'S CONTRIBUTION TO THE WORK B to drower to e of birth **AUTHOR'S NATIONALITY OR DOMICILE** Was this contribution to the work a If the an "work made for hire"? Citizen of Yes No Domiciled in Yes No Paeudonymous? NATURE OF AUTHORSHIP Briefly describe nature of the material created by this author in which copyright is claimed. Collective Work Other: YEAR IN WHICH CREATION OF THIS DATE AND NATION OF FIRST PUBLICATION OF THIS PARTICULAR ISSUE ISSUE WAS COMPLETED Year in all cases. this inform Month ► February Day ► 25 ONLY If this work has been publishe 1998 APPLICATION RECEIVED COPYRIGHT CLAIMANT(S) Name and address must be given even if the claiment is the same as the author given in space 2. 14R 2 0. 1998 American Society for Testing and Materials ONE DEPOSIT RECEIVED 100 Barr Harbor Drive TWO DEPOSITS RE West Conshohcoken, PA 19428-2959 e completing TWO DEPOSITS RECEIVED TRANSFER If the claimant(s) named here in space 4 are different from the author(s) named in space 2, give a brief statement of how the claimant(s) obtained ownership of the copyright. REMITTANCE NUMBER AND DATE

	Case 1.13-CV-01215-	ISC Docu	1116111 TAQ-1 EX	(FORM SE
			G	ECKED BY	AWD	
			****	CORRESPOND		FOR
			Ll	Yes		COPYRIGHT OFFICE
						USE ONLY
	DO NOT WRITE ABOVE THIS LIN	NE. IF YOU NEE!	D MORE SPACE. US	E A REPARAT	E CONTINUATION SHEET	
PREVIOUS RI	EGISTRATION Has registration for this issue	****************************	*************			******************************
⊠ Yes □ I	No if your answer is "Yes," why is another	er registration being	sought? (Check appro	printe box) V	i mioe ii me Copyngii Onice?	
	he first published version of an issue previously	registered in unpub				J
	he first application submitted by this author as o					
	changed version of this issue, as shown by apac	ce 6 on this applicat	ion.			
If your answer is	"Yes," give: Previous Registration Number	Yes	ur of Registration 🔻		•	
a. Preexisting N	WORK OR COMPILATION Complete bot Material Identify any preexisting work or work al Book of ASTM Standards, Section (os that this work is b	assed on or incorporate	opiete only 6b for a	a compilation.	6
b. Material Add	ded to This Work Give a brief, general statem of previous published text plus addition	ont of the material t		his work and in wi	tich copyright is claimed. ♥	See instructions before completing this space.
			***************************************	***************************************	***************************************	
	. -	space de	leted-			7
REPRODUCTA	ON FOR USE OF BLIND OR PHYSICALI	I.V HANDICAPPI	ED INDIVIDUAL S	A signature on this	Som of many 10 and a dead in	***************************************
physically handice of this application	ON FOR USE OF BLIND OR PHYSICALE here in space 8, constitutes a non-exclusive grant supped and under the conditions and limitations; on in Braille (or similar tactile symbols); or (2) a Copies and Phonorecords. OUNT If the registration fee is to be charged to	nescribed by the representation to the prescribed by the representation to the prescri	the Library of Congress in guistions of the Copyri odying a fixation of a re Copies Only	to reproduce and d ght Office: (1) cop ading of that work	listribute solely for the blind and ples of the work identified in space ; or (3) both. e	See Instructions.
hysically handle of this application of the application DEPOSIT ACCO	apped and under the conditions and limitations apped and under the conditions and limitations on in Braille (or similar tactile symbols); or (2) a	m or permission to the prescribed by the re phonorecords embo	the Library of Congress in guistions of the Copyri odying a fixation of a re Copies Only	to reproduce and d ght Office: (1) cop ading of that work yright Office, give	intribute solely for the blind and oles of the work identified in space; or (3) both. e	8 See Instructions.
hysically handic of this application DEPOSIT ACCI Name Ame	apped and under the conditions and limitations in in Braille (or similar tactile symbols); or (2) a	R of permission to its prescribed by the represcribed by the representation of the repre	ne Library of Congress in guilations of the Copyrig a function of a re- Copies Only t established in the Cop Account Number V	to reproduce and dight Office: (1) copading of that work syright Office, give	istribute solely for the blind and ples of the work identified in space; or (3) both. e Phonorecords Only name and number of Account.	See Instructions.
hysically handic of this application DEPOSIT ACCI Name Ame CORRESPOND Kathe Hooper	apped and under the conditions and limitations ion in Braille (or similar tactile symbols); or (2) a	m of permission to its prescribed by the rephonorecords embed by the phonorecords embed by the phonorecords are the phonorecords are the property of the permission of the per	ne Library of Congress in guilations of the Copyrig a function of a re- Copies Only t established in the Cop Account Number V	to reproduce and dight Office: (1) copading of that work syright Office, give	intribute solely for the blind and oles of the work identified in space; or (3) both. e	See instructions.
hyvically handic of this application DEPOSIT ACCO Name Ame CORRESPONDING Kathe Hooper 100 Barr Hart	apped and under the conditions and limitations ion in Braille (or similar tactile symbols); or (2) a	m of permission to its prescribed by the rephonorecords embed by the phonorecords embed by the phonorecords are the phonorecords are the property of the permission of the per	ne Library of Congress in guilations of the Copyrig a function of a re- Copies Only t established in the Cop Account Number V	to reproduce and dight Office: (1) copading of that work syright Office, give	istribute solely for the blind and ples of the work identified in space; or (3) both. e Phonorecords Only name and number of Account.	See instructions.
hyvically handic of this application DEPOSIT ACCO Name Ame CORRESPONDING Kathe Hooper 100 Barr Hart	apped and under the conditions and limitations; on in Braille (or similar tactile symbols); or (2) a	m of permission to the prescribed by the rephonorecords emborate of the phonorecords emborate of the phonorecords emborate of the phonorecords and the property of the propert	ne Library of Congress in guilations of the Copyrig a function of a re- Copies Only t established in the Cop Account Number V	to reproduce and dight Office: (1) copading of that work syright Office, give	istribute solely for the blind and ples of the work identified in space; or (3) both. e Phonorecords Only name and number of Account.	See instructions. 9 Be sure to give your
And Control of this application of this application of this application of this application of the control of t	apped and under the conditions and limitations ion in Braille (or similar tactile symbols); or (2) a	m of permission to its prescribed by the rephonorecords embout the control of the	ne Library of Congress in guilations of the Copyrig a function of a re- Copies Only t established in the Cop Account Number V	to reproduce and dight Office: (1) copading of that work syright Office, give	istribute solely for the blind and ples of the work identified in space; or (3) both. e Phonorecords Only name and number of Account.	See instructions. 9
hysically handical of this application DEPOSIT ACCONSISSES Ame CORRESPOND Kathe Hooper 100 Barr Hart West Consho	apped and under the conditions and limitations; on in Braille (or similar tactile symbols); or (2) a	mot permission to its prescribed by the rephonorecords embo o a Deposit Account its spondence about this atterials	me Library of Congress in guistions of the Copyris odying a fixation of a recopies Only t established in the Cop Account Number V s application should be application should be	to reproduce and dight Office: (1) copeding of that work yright Office, give DA0783 sent. Name	istribute solely for the blind and ples of the work identified in space; or (3) both. e Phonorecords Only name and number of Account.	See instructions. 9
hysically handical of this application DEPOSIT ACCONSISSES Ame CORRESPOND Kathe Hooper 100 Barr Hart West Consho	apped and under the conditions and limitations; ion in Braille (or similar tactile symbols); or (2) a	mot permission to its prescribed by the rephonorecords embo o a Deposit Account its spondence about this atterials	pe Library of Congress is guistions of the Copyriodying a fixation of a recopies Only a catabilished in the Cop Account Number V s application should be a polication should be a poli	to reproduce and dight Office: (1) copeding of that work DA0783 Bent. Name	istribute solely for the blind and ples of the work identified in space; or (3) both. e Phonorecords Only name and number of Account.	See instructions. 9
hysically handical of this application DEPOSIT ACCONSMIC Ame Ame CORRESPOND Kethe Hooper 100 Barr Harb West Consho ERTIFICATIO	apped and under the conditions and limitations; on in Braille (or similar tactile symbols); or (2) a	prescribed by the rephonorecords embo	gulations of the Copyris gulations of the Copyris dying a fixation of a re Copies Only t established in the Cop Account Number V s application should be s application should be suthor other copyright claim owner of exclusive ri	to reproduce and dight Office: (1) copeding of that work DA0783 Bent. Name	intribute solely for the blind and oles of the work identified in space; or (3) both. e Phonorecords Only mense and number of Account. 328 a/Address/ApsCh/Suts/ZP V	See instructions. 9 Be sure to give your devium phone number. 10
hysically handical of this application DEPOSIT ACCONSMIC Ame Ame CORRESPOND Kethe Hooper 100 Barr Harb West Consho ERTIFICATIO	apped and under the conditions and limitations; on in Braille (or similar tactile symbols); or (2) a Copies and Phonorecords. OUNT If the registration fee is to be charged to erican Society for Testing and Material ENCE Give name and address to which correst, American Society for Testing and Material Phocken, PA 19428-2959 Area Code & Telephone DN° 1, the undersigned, hereby certify that 1 american in this application and that the statements mication are correct to the best of my knowledge.	motion of the present of the present of the phonorecords embe on a Deposit Account of the pondence about this atternals Number > (610) Number > (610)	guistions of the Copyriguistions of the Copyriguistions of the Copyright o	to reproduce and dight Office: (1) copeding of that work DA0763 DA0763 Bent. Name Bant ght(s) American Socorother copyright of	intribute solely for the blind and obes of the work identified in space; or (3) both. e Phonorecords Only name and sumber of Account. 328 a/Address/AptCitythus/ZiP V Clefy for Testing & Materiale liment, or owner of sectuals depths.	See instructions. 9 Be sure to give your devium phone number. 10
hysically handical of this application of this application of this application. DEPOSIT ACCOMMENT ACCOMMENT ACCOMMENT ACCOMMENT ACCOMMENT ACCOMMENT HARD WEST CONSHOOTH ACCOMMENT ACCOMME	apped and under the conditions and limitations; on in Braille (or similar tactile symbols); or (2) a Copies and Phonorecords. OUNT If the registration fee is to be charged to erican Society for Testing and Material ENCE Give name and address to which correst, American Society for Testing and Material Phocken, PA 19428-2959 Area Code & Telaphone DN* 1, the undersigned, hereby certify that 1 american in this application and that the statements micration are correct to the best of my knowledge.	motion of the present of the present of the phonorecords embe on a Deposit Account of the pondence about this atternals Number > (610) Number > (610)	guistions of the Copyriguistions of the Copyriguistions of the Copyright o	to reproduce and dight Office: (1) copeding of that work DA0763 DA0763 Bent. Name Bant ght(s) American Socorother copyright of	intribute solely for the blind and obes of the work identified in space; or (3) both. e Phonorecords Only name and sumber of Account. 328 a/Address/AptCitythus/ZiP V Clefy for Testing & Materiale liment, or owner of sectuals depths.	See Instructions. 9 Be sure to give your dayline phone remarks. 10
hysically handical of this application of this application of this application. DEPOSIT ACCOMMENT ACCOMMENT ACCOMMENT ACCOMMENT ACCOMMENT ACCOMMENT HARD WEST CONSHOOTH ACCOMMENT ACCOMME	apped and under the conditions and limitations; on in Braille (or similar tactile symbols); or (2) a Copies and Phonorecords. OUNT If the registration fee is to be charged to erican Society for Testing and Material ENCE Give name and address to which correst, American Society for Testing and Material Phocken, PA 19428-2959 Area Code & Telephone DN° 1, the undersigned, hereby certify that 1 american in this application and that the statements mication are correct to the best of my knowledge.	m of permission to fit prescribed by the rephonorecords embode to a phonorecords embode to a Deposit Account this prescribe to the permission of the providence about this atterials.	guistions of the Copyriguistions of the Copyriguistions of the Copyright o	to reproduce and dight Office: (1) copeding of that work DA0763 DA0763 Bent. Name Bant ght(s) American Socorother copyright of	intribute solely for the blind and obes of the work identified in space; or (3) both. e Phonorecords Only name and sumber of Account. 328 a/Address/AptCitythus/ZiP V Clefy for Testing & Materiale liment, or owner of sectuals depths.	See Instructions. 9 Be sure to give your dayline phone remarks. 10
hysically handical of this application of this application of this application. DEPOSIT ACCOMMENT ACCOMMEN	apped and under the conditions and limitations; ion in Braille (or similar tactile symbols); or (2) a	m of permission to fit prescribed by the rephonorecords embode to a phonorecords embode to a Deposit Account this prescribe to the permission of the providence about this atterials.	guistions of the Copyriguistions of the Copyriguistions of the Copyright o	to reproduce and dight Office: (1) copeding of that work DA0763 DA0763 Bent. Name Bant ght(s) American Socorother copyright of	intribute solely for the blind and pies of the work identified in space; or (3) both. e Phonorecords Only memo and sumber of Account. 328 a/Address/Apt/Ch/Suts/ZiP \ clety for Testing & Materials imant, or owner of suches sights) a that date.	See instructions. 9 Be sure to give your devium phone number. 10
hysically handical of this application of this application of this application. DEPOSIT ACCOMMENT ACCOMMEN	apped and under the conditions and limitations; on in Braille (or similar tactile symbols); or (2) a	m of permission to fit prescribed by the rephonorecords embode to a phonorecords embode to a Deposit Account this prescribe to the permission of the providence about this atterials.	guistions of the Copyriguistions of the Copyriguistions of the Copyright o	to reproduce and dight Office: (1) copeding of that work DA0763 DA0763 Bent. Name Bant ght(s) American Socordine copyright of the copyrig	intribute solely for the blind and pies of the work identified in space; or (3) both. e Phonorecords Only memo and sumber of Account. 328 a/Address/Apt/Ch/Suts/ZiP \ clety for Testing & Materials imant, or owner of suches sights) a that date.	See instructions. 9 Be sure to give your devium phone number. 10
hysically handical of this application of this application of this application. DEFOSIT ACCOMMENT ACCOMME	apped and under the conditions and limitations; on in Braille (or similar tactile symbols); or (2) a	m of permission to fit prescribed by the rephonorecords embode to a phonorecords embode to a Deposit Account this prescribe to the permission of the providence about this atterials.	guistions of the Copyriguistions of the Copyriguistions of the Copyright o	to reproduce and dight Office: (1) copeding of that work DA0763 DA0763 Bent. Name Bant ght(s) American Socordine copyright of the copyrig	intribute solely for the blind and pies of the work identified in space; or (3) both. e Phonorecords Only memo and sumber of Account. 328 a/Address/Apt/Ch/Suts/ZiP \ clety for Testing & Materials imant, or owner of suches sights) a that date.	See Instructions. 9 Be sure to give your dayline phone remarks. 10
Americally handical of this application of this application of this application of this application. DEPOSIT ACCUMANCE American American American American Market Construction of the work identify me in this application of the work identified and in this application.	apped and under the conditions and limitations; ion in Braille (or similar tactile symbols); or (2) a	m of permission to fit prescribed by the rephonorecords embode to a phonorecords embode to a Deposit Account this prescribe to the permission of the providence about this atterials.	guistions of the Copyriguistions of the Copyriguistions of the Copyright o	to reproduce and dight Office: (1) copeding of that work DA0763 DA0763 Bent. Name Bant ght(s) American Socordine copyright of the copyrig	intribute solely for the blind and pies of the work identified in space; or (3) both. e Phonorecords Only memo and sumber of Account. 328 a/Address/Apt/Ch/Suts/ZiP \ clety for Testing & Materials imant, or owner of suches sights) a that date.	See instructions. 9 Be sure to give your daytime phone rustible. 10
Americally handical of this application of this application of this application of this application. DEPOSIT ACCUMANCE American American American American Market Construction of the work identify me in this application of the work identified and in this application.	apped and under the conditions and limitations; on in Braille (or similar tactile symbols); or (2) a	m of permission to fit prescribed by the rephonorecords embode to a phonorecords embode to a Deposit Account this prescribe to the permission of the providence about this atterials.	guistions of the Copyriguistions of the Copyriguistions of the Copyright obving a fixation of a re Copies Only t established in the Cop Account Number s application should be 3 832-9634 author other copyright claim owner of exclusive ri authorized agent of Name of author	to reproduce and dight Office: (1) copeding of that work DA0763 DA0763 Bent. Name Bant ght(s) American Socordine copyright of the copyrig	intribute solely for the blind and pies of the work identified in space; or (3) both. e	See instructions. 9 Be sure to give your dayline phone furnise. 10
physically handical of this application of this application of this application. DEPOSIT ACCIVATES Ame CORRESPONDING Kathe Hooper 100 Barr Hart West Consho CERTIFICATION The work identify yield in this application of the work identify yield or printed as a second of the work identify yield or printed as a second	paped and under the conditions and limitations; on in Braille (or similar tactile symbols); or (2) a	moterials to the present of the representation of the representati	guistions of the Copyriguistions of the Copyriguistions of the Copyright obving a fixation of a re Copies Only t established in the Cop Account Number s application should be 3 832-9634 author other copyright claim owner of exclusive ri authorized agent of Name of author	to reproduce and dight Office: (1) copeding of that work DA0763 DA0763 Bent. Name Bant ght(s) American Socordine copyright of the copyrig	ciety for Testing & Materials and search and search work identified in space; or (3) both. e	See instructions. 9 Be sure to give your dayline phone frumber. 10 111 The carety of the
Ame	apped and under the conditions and limitations; ion in Braille (or similar tactile symbols); or (2) a	moterials to the present of the representation of the representati	guistions of the Copyriguistions of the Copyriguistions of the Copyright obving a fixation of a re Copies Only t established in the Cop Account Number s application should be 3 832-9634 author other copyright claim owner of exclusive ri authorized agent of Name of author	to reproduce and dight Office: (1) copeding of that work DA0763 DA0763 Bent. Name Bant ght(s) American Socordine copyright of the copyrig	intribute solely for the blind and pies of the work identified in space; or (3) both. e	See instructions. 9 Be sure to give your dayline phone frumber. 10 111 The carety of the

Additional Certificate of Registration of a Claim to Copyright

This is to certify that the statements set forth in the attached have been made a part of the records of the Copyright Office with claim of copyright registered under number

In testimony whereof, the seal of this office is affixed hereto on

TX 243-321

Kay A. Tesle

October 2, 2019

United States Register of Copyrights and Director



FORM TX

UNITED STATES COPYRIGHT OFFICE

REGISTRATION NU	243-321
TX	TXU
APR	PEGISTRATION 9 1979

		~	Month	Day Year
		ļ		· · · · · · · · · · · · · · · · · · ·
		DO NOT WRITE ABOVE THIS LINE. IF YOU NEED MORE SPACE, USE	CONTINUATIO	ON SHEET
Title	Par Raj If a per	20FTHIS WORK: 1979 Annual Book of ASTM Standards, ct 4: Steel-Structural, Reinforcing, Pressure Vessel, ilway; Fasteners iodical or serial give: Vol. No. Issue Date. JICATION AS A CONTRIBUTION: (If this work was published as a contribution to a period lective work in which the contribution appeared.)	PREVIOUS O	R ALTERNATIVE TITLES:
		Collective Work: Vol No [Date	Pages
(2)	1	MPORTANT: Under the law, the "author" of a "work made for hire" is generally the employer, not was "made for hire" check "Yes" in the space provided, dive the employer (or other of that part, and leave the space for dates blank.	t the employee (see er person for whom	instructions). If any part of this work the work was prepared) as "Author"
Author(s)		NAME OF AUTHOR:	a 1 a	DATES OF BIRTH AND DEATH:
		American Society for Testing & Materia Was this author's contribution to the work a "work made for hire"? Yes. X. No		Born Died (Year) (Year)
	1	AUTHOR'S NATIONALITY OR DOMICILE: Citizen of	THE WORK: Anonyme Pseudon If the answe	
		NAME OF AUTHOR:		DATES OF BIRTH AND DEATH:
		Was this author's contribution to the work a "work made for hire"? Yes No	WAS THIS A	Born Died (Year) (Year)
	2	Citizen of	THE WORK:	ous? Yes No
		AUTHOR OF: (Briefly describe nature of this author's contribution)	If the answe	ymous? Yes No
		NAME OF AUTHOR:		DATES OF BIRTH AND DEATH:
		Was this author's contribution to the work a "work made for hire"? Yes No		Born Died (Year)
	3	AUTHOR'S NATIONALITY OR DOMICILE:	WAS THIS A	UTHOR'S CONTRIBUTION TO
		Citizen of	Anonym	
			If the answer	er to either of these questions is alled instructions attached.
	YEAL	R IN WHICH CREATION OF THIS WORK WAS COMPLETED: DATE AND NATIO	N OF FIRST PU	BLICATION:
(3)			1.	1979
Creation		Year 1979 Nation Unit	ed States	(Day) (Year)
and Publication		(This information must be given in all cases.) (Complete the	(Name of its block ONLY if thi	Country) s work has been published.)
	NAM	IE(S) AND ADDRESS(ES) OF COPYRIGHT CLAIMANT(S):		
Cletment(e)	Am 19	erican Society for Testing & Materials 16 Race Street iladelphia, PA 19103		

TRANSFER: (If the copyright claimant(s) named here in space 4 are different from the author(s) named in space 2, give a brief statement of how the claimant(s) obtained ownership of the copyright.)

Committee all acceptable survey for the first state of the state of th

 \bullet Complete all applicable spaces (numbers 5·11) on the reverse side of this page \bullet Follow detailed instructions attached

Sign the form at line 10

DO NOT WRITE HERE
Page 1 of pages

	Cul	NV		et .
	CHECKED BY: CHECKED BY: CORRESPONDENCE: Yes	APR 0 9 13 7 9 DEPOSIT RECEIVED: APR 0 9 1 3 7 9	42 7. 0 9 1) 7 9	FOR COPYRIGHT OFFICE USE
TX' 243-321	DEPOSIT ACCOUNT FUNDS USED:	20106		ONLY
DO NOT WRITE ABOVE THIS LINE. IF YOU NEED A REVIOUS REGISTRATION:	DDITIONAL SPACE, US	E CONTINUATION	SHEET (FORM TX/CO	V)
Has registration for this work, or for an earlier version of this work, already be If your answer is "Yes," why is another registration being sought? (Check ap This is the first published edition of a work previously registered in unput. This is the first application submitted by this author as copyright claimar This is a changed version of the work, as shown by line 6 of this application.	ppropriate box) ublished form. nt.	e? YesX N	· · · · · · · · · · · · · · · · · · ·	Previous Registra- tion
If your answer is "Yes," give: Previous Registration Number TX	13-350 Yea	r of Registration	978	
OMPILATION OR DERIVATIVE WORK: (See instructions)				
PREEXISTING MATERIAL: (Identify any preexisting work or works that it 1978 Annual Book of ASTM Standards, MATERIAL ADDED TO THIS WORK: (Give a brief, general statement of it Compilation of previously published	Part 4 he material that has been added	to this work and in which	n copyright is claimed.)	Compilation or Derivative Work
ANUFACTURERS AND LOCATIONS: (If this is a published work any require that the copies be manufactured in the United States or Canada in processes, and the places where these processes were performed must NAMES OF MANUFACTURERS Waverly Press, Inc.	da for full protection. If so, th t be given. See instructions fo	e names of the manu or details.) PLACES OF MANUFAC	acturers who performed cer-	7 Manufactur Ing
Signature of this form at space 10, and a check in one of the boxes here is reproduce and distribute solely for the blind and physically handicapped an fice: (1) copies of the work identified in space 1 of this application in Braille that work; or (3) both. a \$1 Copies and phonorecords b Copies and phonorecords	in space 8, constitutes a non-exc id under the conditions and limit	dusive grant of permissic	regulations of the Copyright Of- dying a fixation of a reading of	8 License For Handicappe
DEPOSIT ACCOUNT: (If the registration fee is to be charged to a Deposit Account established in the Copyright Office, give name and number of Account.) Name: Account Number.	dence about this application Name: Robert L. Address: 1916 Rad	ation should be sent.) Me.I t.zer., . A		Fee and Correspond
ERTIFICATION: # 1, the undersigned, hereby certify that I am the: (C author other copyright claimant owner of exclusive right(s) authorize of the work identified in this application and that the statements made by the work identified in this application and that the statements made by the work identified in this application and that the statements made by the work identified in this application and that the statements made by the work identified in this application and that the statements made by the work identified in this application. Handwritten signature: (X)	ed agent of: (Name of authors in this application are cor	rect to the best of my	ts. nt. or owner of exclusive right(s)) knowledge.	Certification (Application must be eigned)
American Society for Testing (Name) 1916 Race Street (Mumber Street and Aparts Philadelphia, PA 19103 (State)	ment Number)	1	MAIL CERTIFICATE 18 JUN 1979 (Certificate will be mailed in window envelope)	Address For Return of Certificate

₱17 U.S.C. \$ 506(e): Any person who knowingly makes a false representation of a material fact in the application for copyright registration provided for by section 409, or in any written statement filled in connection with the application, shall be fined not more than \$2,500.





Additional Certificate of Registration of a Claim to Copyright

This is to certify that the statements set forth in the attached have been made a part of the records of the Copyright Office with claim of copyright registered under number

In testimony whereof, the seal of this office is affixed hereto on



TX 226-040

October 3, 2019

United States Register of Copyrights and Director

c-731 03/2019

FORM TX

UNITED STATES COPYRIGHT OFFICE

REGISTRATION NU	JMBER		-
TX	226-	-040	-
TX /	Ţ	KU	
TX EFFECTIVE DATE OF F	-	KU	

					Day	Year
3 .		G 0	THE CASE OF THE PARTY OF THE PARTY.			
		DO NOT WRITE ABOVE THIS LINE. IF YOU NEED	MORE SPACE, USE O	CONTINUATI	ON SHEET	
	TITL	E OF THIS WORK.				
(1)		1979 Annual Book of ASTM S	tandards,	PREVIOUS U	RALTERNATIV	E TITLES:
	Pa	rt 1: Steel-Piping, Tubing, Fittings				
Title	1		GR. A BLOD CO. NO.			
	паре	riodical or serial give: Vol No Issue Date				
	PUB	LICATION AS A CONTRIBUTION: (If this work was published as a ollective work in which the contribution appeared.)	contribution to a periodic	al serial or co	lection due infor	mation about
	Title	f Collective Work:	VolNoDa	ita .	D	
	7					
		IMPORTANT: Under the law, the "author" of a "work made for hire" is g was "made for hire" check "Yes" in the space provided,	generally the employer, not the	he employee (see	e instructional If an	u port of this word.
(2)		was "made for hire" check "Yes" in the space provided, of that part, and leave the space for dates blank.	give the employer (or other	person for whom	the work was prep	ared) as "Author"
		NAME OF AUTHOR:				
Author(s)		American Society for Tor	håma 6 34		DATES OF BIRT	HAND DEATH:
		American Society for Test Was this author's contribution to the work a "work made for hire"?	ing G Materia	s	Born	Died
		AUTHOR'S NATIONALITY OR DOMICILE:				(Year)
	1		II C A	THE WORK:	AUTHOR'S CONTI	RIBUTION TO
		Citizen of (Name of Country) or Domiciled in	(Name of Country)	Anonyme	ous? Vec	. No
		AUTHOR OF: (Briefly describe nature of this author's contribution)	The state of the s		ymous? Yes	No
				If the answe	er to either of the	sse questions is
		NAME OF AUTHOR:		"Yes, see deta	alled instructions atta	iched.
					DATES OF BIRTI	HAND DEATH:
		Was this author's contribution to the work a "work made for hire"?	s. No		Born	
	2	AUTHOR'S NATIONALITY OR DOMICILE:		WAS THIS A	(Year) UTHOR'S CONTE	(Year)
		Citizen of		THE WORK:	OTHOR'S CONTR	UNUTION TO
		Citizen of	(Name of Country)	Anonymo	ous? Yes	No
		AUTHOR OF: (Briefly describe nature of this author's contribution)		Pseudony	ymous? Yes	No
			,	If the answe	er to either of the	se questions is
		NAME OF AUTHOR:		1 62, 266 061	alled instructions atta	ched.
					DATES OF BIRTH	
		Was this author's contribution to the work a "work made for hire"? Ye	s No		Born(Year)	
	3	AUTHOR'S NATIONALITY OR DOMICILE:		WAS THIS A	UTHOR'S CONTR	(veer)
		Citizen of or 1 Domiciled in		THE WORK:	OTHORS COMIN	IIBOHON TO
		Citizen of (Name of Country) or Domiciled in	(Name of Country)	Anonymo	ous? Yes	No
		AUTHOR OF: (Briefly describe nature of this author's contribution)	**************************************	ł	mous? Yes	No
				If the answer	r to either of thes	se questions is
	**** A =			Yes, see deta	iled instructions attac	ched.
(3)	TEAR	IN WHICH CREATION OF THIS WORK WAS COMPLETED:	DATE AND NATION O	F FIRST PUB	LICATION	
(3)						
Constlan		1070	Date March 1 Nation United	onth)	/Dmd	
and		Year. 1979	Nation United	States	(May)	ear)
Publication		(This information must be given in all cases.)		(LABILIE OF C	(Vilnuo	
			(Complete this bl	ock ONLY if this	work has been publis	shed.)
	NAM	E(S) AND ADDRESS(ES) OF COPYRIGHT CLAIMANT(S):				
(4)						
	101	rican Society for Testing & Materials				
Claimant(a)	191	o Race Street				
	Phi	ladelphia, PA 19103				
	Maria dala irra					1 1 1 1 1 1 1 1 1
	TRAP	ISFER: (If the copyright claimant(s) named here in space 4 are differentials) obtained ownership of the copyright.)	· Annual Comment		-	
	claima	int(s) obtained ownership of the copyright.)	from the author(s) name	d in space 2, gi	ve a brief statemen	nt of how the
				4 White		
Willed Market and American Company and a second						

DO NOT WRITE HERE Page 1 of . tra pages

Complete all applicable spaces (numbers 5-11) on the reverse side of this page
 Fallow detailed instructions attached

[•] Sign the form at line 10

	EXAMINED BY:	APPLICATION RECEIVED	*
	CHECKED BY	177. 0 9 1 3 7 9	FOR
	CORRESPONDENCE Yes	13.091379 APR 091379	. COPYRIGHT OFFICE
TX 226-040	DEPOSIT ACCOUNT FUNDS USED:	REMITTANCE NUMBER AND DATE 201061 APR 979	USE ONLY
DO NOT WRITE ABOVE THIS LINE. IF YOU NEED AD	DITIONAL SPACE, US	E CONTINUATION SHEET (FORM TX/CO	V)
PREVIOUS REGISTRATION:			
 Has registration for this work, or for an earlier version of this work, already be If your answer is "Yes," why is another registration being sought? (Check app 	propriate box)	Yes X No	5 Previous
This is the first published edition of a work previously registered in unput This is the first application submitted by this author as copyright claimant This is a changed version of the work, as shown by line 6 of this application	t		Registra- tion
If your answer is "Yes," give: Previous Registration Number	13-355 Yea	r of Registration 1978	
COMPILATION OR DERIVATIVE WORK: (See instructions)		23.	
PREEXISTING MATERIAL: (Identify any preexisting work or works that the		otes.)	(6)
1978 Annual Book of ASTM Standards, MATERIAL ADDED TO THIS WORK: (Give a brief, general statement of the	Part 1	to this work and in which copyright is clumed.)	Compilation or Derivative Work
Compilation of previously published	d text plus addi	itional text	
MANUFACTURERS AND LOCATIONS: (If this is a published work or may require that the copies be manufactured in the United States or Canaditain processes, and the places where these processes were performed must I NAMES OF MANUFACTURERS Waverly Press, Inc.	a for full protection. If so, the be given. See instructions fo	e names of the manufacturers who performed cer- or details.) PLACES OF MANUFACTURE	7 Manufactur Ing
Signature of this form at space 10, and a check in one of the boxes here in reproduce and distribute solely for the blind and physically handicapped and fice: (1) copies of the work identified in space 1 of this application in Braille that work; or (3) both. a StxCopies and phonorecords b □	space 8, constitutes a non-excluder the conditions and limits	lusive grant of permission to the Library of Congress to	ilicense For Handicappe
DEPOSIT ACCOUNT: (If the registration fee is to be charged to a Deposit Account established in the Copyright Office, give name and	dence about this applica		9
Name: Account Number:	Address: 1916 Race	Meltzer, ASTM Street A, PA 19103 (State) (ZIP)	Fee and Correspond ence
CERTIFICATION: * I, the undersigned, hereby certify that I am the: (Ch author Oother copyright claimant Oowner of exclusive right(s) & authorized of the work identified in this application and that the statements made by a Handwritten signature: (X). Typed or printed name Robs	agent of: (Name of authors in this application are correctly than the same of authors in t	and Materials. and Materials. or or other copyright (almant or owner of exclusive right(s)) rect to the best of my knowledge. Date 3/23/25	Cartification (Application must be signed)
American Society for Testing (Name) 1916 Race Street (Number Street and Apartme Philadelphia PA 19103 (State)	erif Number)	MAIL CERTIFICATE (Certificate will be mailed in window envelope)	Address For Return of Certificate

17 U.S.C. \$ 506(e): Any person who knowingly makes a false representation of a material fact in the application for copyright registration provided for by section 409, or in any written statement filed in connection with the application, shall be fined not more than \$2,500.

CERTIFICATE OF REGISTRATION Document 198-7 Filed 10/0 FORM SE of 49 UNITED STATES COPYRIGHT OFFICE







This Certificate issued under the seal of the Copyright Office in accordance with title 17, United States Code, attests that registration has been made for the work identified below. The information on this certificate has been made a part of the Copyright Office records.

Narybeth Peters

TX 4-083-251

REGISTRATION NUMBER

EFFECTIVE DATE OF REGISTRATION 30 Day

OFFI	CIAL SEAL United States of America		
	TITLE OF THIS SERIAL V 1995 Annual Book of ASTM Standards: Volume V Number V Date on Copies V	88838888888888888	1 Producti
	01 01 Jan. 1995	.	Annual
	PREVIOUS OR ALTERNATIVE TITLES ▼	· · · · · · · · · · · · · · · · · · ·	
	NAMEOFAUTHORV American Society for Testing and Materials	DATES OF BIR Year Born ♥	TH AND DEATH Year Died ♥
····	Was this contribution to the work a "work made for hire"? Yes □ No AUTHOR'S NATIONALITY OR DOMICILE Name of Country OR Citizen of ▶ Domiciled in ▶ United States	THE WORK Anonymous?	THOR'S CONTRIBUTION TO If the answer to either of these questions is "Yes," see detailed
VIE	NATURE OF AUTHORSHIP Briefly describe nature of the material created by this author in w Collective Work Other: Entire Text	Pseudonymous? which copyright is cl	☐ Tes ☐ No instructions
075	NAME OF AUTHOR ▼	DATES OF BIR Year Born ▼	TH AND DEATH Year Died V
28817385	Was this contribution to the work a ☐ Yes "work made for hire"? ☐ No	THE WORK Anonymous? Pseudonymous?	THOR'S CONTRIBUTION TO Yes No
	NATURE OF AUTHORSHIP Briefly describe nature of the material created by this author in w ☐ Collective Work Other: NAME OF AUTHOR ▼	أورس والمستنان المستنا	I'H AND DEATH Year Died ▼
	Was this contribution to the work a Yes	WAS THIS AUTHE WORK Anonymous? Pseudonymous?	THOR'S CONTRIBUTION TO If the answer to either of these questions is "fes," see detailed
	NATURE OF AUTHORSHIP Briefly describe nature of the material created by this author in w Collective Work Other:		☐ Yes ☐ No instructions.
a	1995 A Year In all cases W has been multilated IT C A	127 Day C	IIS PARTICULAR ISSUE Year ▶ 1995 A Nation
instructions ire completing space	COPYRIGHT CLAIMANT(S) Name and address must be given even if the claimant is the same as the author given in space 2. American Society for Testing & Materials 1916 Race Street	APPLICATION ALIG 3 (1) AND ONE DEPOSIT	RECEIVED 9 9 5 RECEIVED
	TRANSFER If the claimant(s) named here in space 4 are different from the author(s) named in space 2, give a brief statement of how the claimant(s) obtained ownership of the copyright.▼	SE HEMITTANGE	S RECEIVED O C F NUMBER AND DATE

MORE ON BACK ➤ • Complete all applicable spaces (numbers 5-11) on the reverse side of this page • See detailed instructions • Sign the form at line 10

DO NOT WRITE HERE

J

	Case 1:13-cv-01215-TSC Document 198-7	ned 10/07/19 Page 27 of 49	FORM SE
	CHE	CKED BY	
		CORRESPONDENCE Yes	FOR COPYRIGHT OFFICE USE ONLY
*****************	DO NOT WRITE ABOVE THIS LINE. IF YOU NEED MORE SPACE, USE A SEP	ARATE CONTINUATION SHEET.	
a. This is the D. This is a control of the C. This is a co	REGISTRATION Has registration for this issue, or for an earlier version of this particular If your answer is "Yes," why is another registration being sought? (Check appropriate box) are first published version of an issue previously registered in unpublished form. The first application submitted by this author as copyright claimant. The changed version of this issue, as shown by space 6 on this application. If yes," give: Previous Registration Number Your Year of Registration YES.	▼	
1994 An		plete only 6b for a compilation. Volume C /	0
b. Material Ac Compila	dded to This Work Give a brief, general statement of the material that has been added to the tion of previous published text plus add	is work and in which copyright is claimed.▼ itional text.	See instructions before completing this space.
****************		***************************************	
***************************************	—space deleted—	-	
and physically be a full of this applica	FION FOR USE OF BLIND OR PHYSICALLY HANDICAPPED INDIVIDUALS the boxes here in space 8, constitutes a non-exclusive grant of permission to the Library of Contandicapped and under the conditions and limitations prescribed by the regulations of the Coption in Braille (or similar tactile symbols); or (2) phonorecords embodying a fixation of a reading. Copies and Phonorecords	gress to reproduce and distribute solely for the blind	See instructions
CORRESPON	If the registration fee is to be charged to a Deposit Account established in the Constitution of the Cons	8328	
1916_	Race Street		Be sure to
_ PHIIA	delphia, PA 19103-1187 Area Code & Telephone Number ▶ 215-299-543	1	give your daytime phone
of the work ider by me in this ap	Check one ontering that the statements made other copyright claimant owner of exclusive right(s	American Society Or Testing and Materials or other copyright claimant, or owner of exclusive right(s)	10
_	t L. Meltzer	date & lugust 24	1995
F	Handwritten signature (X) ▼	Tses	
MAIL CERTIFI- CATE TO	Name Kathe Hooper, ASTM Number/Street: Apartment Number	Complete all necessary spaces Sign your application in space 10 1. Application form	
Certificate will be mailed in window envelope	1916 Race Street City/State/ZIP▼ Philadelphia, PA 19103-1187	2. Nonrefundable \$20 filing fee in check or money order payable to Register of Copyrights 3. Deposit material Anguister of Copyrights Library of Copyrights Library of Copyrights Washington, D.C. 20559	
* 17 U S C § 506(a connection with the	e) Any person who knowingly makes a false representation of a material fact in the application for copyright rie application, shall be fined not more than \$2,500.	000000000000000000000000000000000000000	ent filed in

☆U.S. GOVERNMENT PRINTING OFFICE: 1990—282-170/20,005





This Certificate issued under the seal of the Copyright Office in accordance with title 17, United States Code, attests that registration has been made for the work identified below. The information on this certificate has been made a part of the Copyright Office records.

BEGISTER OF COPYRIGHTS

REGISTRATION NUMBER

TX 4-029-508

EFFECTIVE DATE OF REGISTRATION

MAR 1 6 1995

OFFICIAL S	EAL White distance of America	
	United States of America	
	DO NOT WRITE ABOVE THIS LINE. IF YOU NEED MORE SPACE, USE A SEPARATE	COMMISSION OFFE
AND DESCRIPTION OF THE PARTY OF		CONTINUATION SHEET
265	1995 Annual Book of ASTM Standards: from and	Steel Bredute:
400	1993 minggi pook of ustlet statigotas. Al anti-	pers products.
	Stool - Plate Shirt stoin win	
-	The formal of the first of the	4
7	Volume ▼ Number ▼ Date on Copies ▼	Frequency of Publication V
L L	0/ 13 7./	Annual
TU	01 03 teleruary 199.	2
- T	PREVIOUS OR ALTERNATIVE TITLES ▼	The state of the s
7		
G		
No. of the last of		***************************************
	NAME OF AUTHOR ▼	DATES OF BIRTH AND DEATH
	American Society for Testing and Materials	Year Born W Year Died W
	AND ANY PLACE THE REPORT OF THE PARTY OF THE	
	Was this contribution to the work a "work made for hire"? Name of Country	WAS THIS AUTHOR'S CONTRIBUTION TO THE WORK
	Yes Citizen of D	Anonymous? Yes No of these questions in
MOTE	Domiciled in Domic	Pseudonymous? ☐ Yes ☐ No "Not instructions
Under the law	NATURE OF AUTHORSHIP Briefly describe nature of the material created by this author in	which copyright is claimed. ▼
the facilities of a	Cellective Work Other Entire Text	
inork made for fare' is generally in	NAME OF AUTHOR V	DATES OF BUILTH AND I EATH
the employer.	9	Year Born ♥ Year Died ♥
not the em- } ployee (see in-		
structions) For any part of this	Was this contribution to the work a AUTHOR'S NATIONALITY OR DOMICILE	WAS THIS AUTHOR'S CONTRIBUTION TO
work that was	Yes "work made for hire"? Name of country (Citizen of	THE WORK
'made for hire' check 'Yes' in	□ No OR Domiciled in ▶	the state of the s
the space pro- vided give the		T 163 E 190 Waltruckons
employer (or	NATURE OF AUTHORSHIP Briefly describe nature of the material created by this author in Collective Work Other:	which copyright is claimed. ▼
other person for whom the work	NAME OF AUTHOR V	DANTE OF BUILDING
was prepared)	**	DATES OF BIRTH AND DEATH Year Born W Year Died W
as "Author" of §	Av.	
fairve the space for dates of birth	Was this contribution to the work a AUTHOR'S NATIONALITY OR DOMICILE	
and death blank	"work made for hire"? Name of Country	WAS THIS AUTHOR'S CONTRIBUTION TO THE WORK
	OR CREET OF	— Anonymous? ☐ Yes ☐ No of those questable is
	□ No Domiciled in ▶	— Pseudonymous? ☐ Yes ☐ No instructions
	NATURE OF AUTHORSHIP Briefly describe nature of the material created by this author in v	
eexcessessessessesses	Collective Work Other:	
1	TEAK IN WHICH CREATION OF THIS DATE AND NATION OF FIRST PLIN	LICATION OF THIS PARTICULAR ISSUE
. 4 a	1330E TANS CONTINUED IN THE STORE AND STORES	way Day > 10 Year > 1995
- P	1995 4 Year in all cappe. has been middlehed U.S.A.	■ Nation
## CONTRACTOR OF THE PROPERTY	COPYRIGHT CLAIMANT(S) Name and address must be given even if the claimant is the	
/1	same as the author given in space 2.	APPLICATION RECEIVED
Mari No.	American Society for Testing & Materials	MIN DEPOSIT RECEIVED
See contract	1916 Race Street	ES ONE DE CONTRECENTED
See instructions before completing	Philadelphia, PA 19103-1187	TWO DEBOSITS BEGENATO
his space		ONE DEPOSIT RECEIVED TWO DEROSITS RECEIVED
	TRANSPER If the claimant(s) named here in space 4 are different from the author(s) named in space 2. give a brief statement of how the claimant(s) about the different from the author(s) named	REMITTANCE NUMBER AND DATE
	in space 2, give a brief statement of how the claimant(s) obtained ownership of the copyright.	စ္စိစီ
		0

MORE ON BACK ► • Complete all applicable spaces (numbers 5-11) on the reverse side of this page • See detailed instructions • Sign the form at line 10

DO MOT WANTE HEAE

	Case 1.13-cv-01215-15C Document 198-7 Pred 199-7	FORM SE
	CHECKED BY	
	CORRESPONDENCE	FOR COPYRIGHT OFFICE USE ONLY
	DO NOT WRITE ABOVE THIS LINE. IF YOU NEED MORE SPACE, USE A SEPARATE CONTINUATION SHEET.	THE RESERVE THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO I
PREVIOUS I	REGISTRATION Has registration for this issue, or for an earlier version of this particular issue, already been made in the Copyright O	ffice?
a. 🗆 This is th	o If your answer is "Yes," why is another registration being sought? (Check appropriate box) ♥ he first published version of an issue previously registered in unpublished form he first application submitted by this author as copyright claimant.	
c. 🗀 This is a	changed version of this issue, as shown by space 6 on this application.	
If your answer	r is "Yes," give Previous Registration Number ▼ Year of Resistration ▼ TX# 3-841-005 1994	
DERIVATIV	E WORK OR COMPILATION Complete both space 6a & 6b for a derivative work; complete only 6b for a compilation.	
a. Preevisting	mual Book of ASTM Standards, Section 0/, Volume 03.	
1771		
b. Material A Compila	Added to This Work Give a brief, general statement of the material that has been added to this work and in which copyright is claimed V ation of previous published text plus additional text.	See instructions before completing this space
\$60000000000000000000000000000000000000		
	-space deleted-	7
check in one of and physically I of this applica	TION FOR USE OF BLIND OR PHYSICALLY HANDICAPPED INDIVIDUALS A signature on this form at space 10, if the boxes here in space 8, constitutes a non-exclusive grant of permission to the Library of Congress to reproduce and distribute solely for the handicapped and under the conditions and limitations prescribed by the regulations of the Copyright Office: (1) copies of the work identified in ation in Braille (or similar tactile symbols); or (2) phonorecords embodying a fixation of a reading of that work; or (3) both. Copies and Phonorecords b Copies Only c Phonorecords Only	ablind 🛞 🗆 🕉
DEPOSIT A	CCOUNT It the registration fee is to be charged to a Deposit Account established in the Copyright Office, give name and number of Account Number ▼	count.
Rober	NDENCE Give name and address to which correspondence about this application should be sent. Name Address Api City State: Zip ▼ rt L. Meltzer, ASTM	
7 - 1 7 7 2 1 - 1	Race Street	Be sure to give your
	Area Code & Telephone Number ▶ 215-299-5431	daytime phone
CERTIFICAT	TION* 1, the undersigned, hereby certify that I am the	
CERTIFICAT	ION I, the undersigned, hereby certify that I am the Check one > author other copyright claimant	-46
of the work ide	owner of exclusive right(s) American Society	
by me in this ap	pplication are correct to the best of my knowledge. Tauthorized agent of <u>for Testing and Nater</u> Name of author or other copyright claimant, or owner of exclusive no	ials
C1=51 P2VI	red name and date ▼ If this application gives a date of publication in space 3, do not sign and submit it before that date. **The company of the company o	1994
	Hardweller deadler (V)	
فتحسأ	Handwritten signature (X) V Robert X. Meltines	
MAIL CERTIFI-	Name V Kathe Hooper, ASTM Complete all necessary sp Sion your replacement in so	eces aces 10
CATE TO Certificate	Number Street Apartment Number ▼ 1. Application form 2. Nonreturdebite 320 filing	too
will be mailed in	City State ZiP ▼ City State ZiP ▼ 1. Deposit material	pyrights
window envelope	Philadelphia, PA 19103-1187 Register of Copyrights Library of Congress Washington, D.C. 20559	可含度的
* *7 U.S.C. # 506i connection a in in	(iv) Any person who knowingly makes a faise representation of a material fact in the application for copyright registration provided for by section 409, or in any writting application shall be fined not impre man \$2,500.	en statement filed in

UNITED STATES COPYRIGHT OFFICE

T X	13-3:	5 5
fix)	TXU	A ₅₀
EFFECTIVE DATE OF HE	GISTRATION	
MAR -2 1	. 1978	 'ear

		DO NOT WRITE ABOVE THIS LINE. IF YOU NEED MORE SPACE, USE C	
	TITL	EOFTHIS WORK: 1978 Annual Book of ASTM Standards	REVIOUS OR ALTERNATIVE TITLES:
(1)	Pa	art 1, Steel Piping, Tubing and Fittings	
Title		riodical or serial give: Vol No Issue Date	•
error (error o	PUB	LICATION AS A CONTRIBUTION: (If this work was published as a contribution to a periodice	al. serial, or collection, give information about
en e	the co	ollective work in which the contribution appeared.)	
11.	Title o	f Collective Work:	e Pages
(2)		IMPORTANT: Under the law, the "author" of a "work made for hire" is generally the employer, not the was "made for hire" check "Yes" in the space provided, give the employer (or other p of that part, and leave the space for dates blank.	erson for whom the work was prepared) as "Author"
Authorial		NAME OF AUTHOR: American Society for Testing & Ma	terials DATES OF BIRTH AND DEATH
		Was this author's contribution to the work a "work made for hire"? YesXX. No.	Born Died (Year)
No seek to constant		AUTHOR'S NATIONALITY OR DOMICILE:	WAS THIS AUTHOR'S CONTRIBUTION TO THE WORK:
. j. 2 ()	1	Citizen of	Anonymous? Yes No
		AUTHOR OF: (Briefly describe nature of this author's contribution)	Pseudonymous? Yes No
		and the contract of the contract of	If the answer to either of these questions is "Yes, see detailed instructions attached."
A. 1444		NAME OF AUTHOR:	DATES OF BIRTH AND DEATH:
1.3		Was this author's contribution to the work a "work made for hire"? Yes No	Born Died (Year)
we i soul	Al	AUTHOR'S NATIONALITY OR DOMICILE:	WAS THIS AUTHOR'S CONTRIBUTION TO
7	2	Citizen of	THE WORK: Anonymous? Yes No.
≱KH girat na Odae,jet		(Name of Country) (Name of Country) AUTHOR OF: (Briefly describe nature of this author's contribution)	Anonymous? Yes No
			If the answer to either of these questions is "Yes, see detailed instructions attached."
	41/11/20 10111	NAME OF AUTHOR:	DATES OF BIRTH AND DEATH:
		Was this author's contribution to the work a "work made for hire"? Yes No	Born Died
		AUTHOR'S NATIONALITY OR DOMICILE:	WAS THIS AUTHOR'S CONTRIBUTION TO
Section 1	3	Citizen of	THE WORK:
	3 1.	(Name of Country) (Name of Country) AUTHOR OF: (Briefly describe nature of this author's contribution)	Anonymous? Yes No
		The same of the sa	If the answer to either of these questions is
- C - A			"Yes, see detailed instructions attached.
	YEA	R IN WHICH CREATION OF THIS WORK WAS COMPLETED: DATE AND NATION O	F FIRST PUBLICATION:
3		Date Janua	ry 1 1978
Greation		Year 1977 Nation United	Anith) (Day) (Year)
and Publication			fuestio of Contral
	<u></u>	(This information must be given in all cases.) (Complete this bi	ock ONLY if this work has been published.)
	NAM	IE(S) AND ADDRESS(ES) OF COPYRIGHT CLAIMANT(S):	
(4)	Ar	merican Society for Testing and Materials	, , , , , , , , , , , , , , , , , , , ,
Chimentie)	1	116 Race Street	
Constitution of the second	bl	niladelphia, Pennsylvania 19103	
No. Matter A. Tambey A. T	and the street	AND	
	THA	NSFER: (If the copyright claimant(s) named here it is race 4 as: "If ment from the withor(s) name tank(s) obtained ownership of the copyright."	ed in space 2, give a brief statement of how the
() Colorador ()	a desi	www.parame.comeramporme.copyrights	TO SERVICE STATE OF THE SERVIC
in the state of th	1000		
Complate All se	and in a	and the second of the second o	the second of th

Follow detailed instructions attached

Sign the form at line 10

Case 1:13-cv-01215-TSC Docu		_	
	CHECKED BY:	APPLICATION RECEIVED	
	CORRESPONDENCE: Yes	DEPOSIT RECEIVED	FOR COPYRIGHT OFFICE
	DEPOSIT ACCOUNT FUNDS USED:	REMITTANCE NUMBER AND DATE	USE
		136761 MAR 2178	÷
DO NOT WRITE ABOVE THIS LINE. IF YOU NEED A	DDITIONAL SPACE, U	SE CONTINUATION SHEET (FORM TX)	(CON)
 Has registration for this work, or for an earlier version of this work, already b If your answer is "Yes." why is another registration being sought? (Check ap This is the first published edition of a work previously registered in unput. This is the first application submitted by this author as copyright claimar. This is a changed version of the work, as shown by line 6 of this application. 	propriate box) iblished form. it.		Previous Registra- tion
• If your answer is "Yes," give: Previous Registration Number	28474 Ye	ar of Registration 1977	
PREEXISTING MATERIAL: (Identify any preexisting work or works that the 1977 Edition, Annual Book of MATERIAL ADDED TO THIS WORK: (Give a brief, general statement of the Compilation of previously publ	ASTM Standa: ne material that has been added ished text p	rds, Part1 d to this work and in which copyright is claimed.) 1us additional text.	Or Derivative
MANUFACTURERS AND LOCATIONS: (If this is a published work of may require that the copies be manufactured in the United States or Canadain processes, and the places where these processes were performed must NAMES OF MANUFACTURERS	a for full protection. It so, the begiven. See instructions for	ne names of the manufacturers who performed or details.)	law cer 7
Waverly Press, Inc.		aryland	ing
**EPRODUCTION FOR USE OF BLIND OR PHYSICALLY-HANDI Signature of this form at space 10, and a check in one of the boxes here in reproduce and distribute solely for the blind and physically handicapped and fice: (1) copies of the work identified in space 1 of this application in Braille that work or (3) both.	Easton; M CAPPED PERSONS: (Se	aryland ee instructions) Clusive grant of permission to the Library of Congress	s to Of License For
**Signature of this form at space 10, and a check in one of the boxes here in reproduce and distribute solely for the blind and physically handicapped and fice: (1) copies of the work identified in space 1 of this application in Braille that work or (3) both.	Easton; M CAPPED PERSONS: (Se	aryland ee instructions) Clusive grant of permission to the Library of Congress	s to Of-
**EPRODUCTION FOR USE OF BLIND OR PHYSICALLY-HANDI Signature of this form at space 10, and a check in one of the boxes here in reproduce and distribute solely for the blind and physically handicapped and fice: (1) copies of the work identified in space 1 of this application in Braille that work or (3) both.	CAPPED PERSONS: (Se space 8, constitutes a non-exc under the conditions and limit (or similar tactile symbols): or Copies Only CORRESPONDENC dence about this applica Name: Robert Address: 1916 Ra	aryland clusive grant of permission to the Library of Congressations prescribed by the regulations of the Copyright (2) phonorecords embodying a fixation of a reading c Phonorecords Only	s to Of License For Handicappe
Signature of this form at space 10, and a check in one of the boxes here in reproduce and distribute solely for the blind and physically handicapped and fice: (1) copies of the work identified in space 1 of this application in Braille that work or (3) both. **A Copies and phonorecords **Deposit Account: (If the registration fee is to be charged to a Deposit Account established in the Copyright Office, give name and number of Account.) **Name:**	Easton, M CAPPED PERSONS: (So space 8, constitutes a non-ext under the conditions and limit (or similar tactile symbols): or Copies Only CORRESPONDENC dence about this applica Name: Robert Address: 1916 R. Philadelpl eck one) American agent of: (Name of auth in this application are con which American	ee instructions) clusive grant of permission to the Library of Congressations prescribed by the regulations of the Copyright (2) phonorecords embodying a fixation of a reading c Phonorecords Only E: (Give name and address to which correspond tion should be sent.) L. Metlzer, ASTM acc Street (Apt.) Aia Pennsylvania (ZIP) Society for Testing and Materials or or other copyright claimant, or owner of exclusive right(s)) rect to the best of my knowledge.	s to Of License For Handicappe 103 ence

a U. S. GOVERNMENT PRINTING OFFICE: 1977 O - 348-641

Additional Certificate of Registration of a Claim to Copyright

This is to certify that the statements set forth in the attached have been made a part of the records of the Copyright Office with claim of copyright registered under number

In testimony whereof, the seal of this office is affixed hereto on

TX 278-720

October 1, 2019

Lay A. Tesle

United States Register of Copyrights and Director



UNITED STATES COPYRIGHT OFFICE

1 /			720
TX	PMI	TXU	a va c
	E OF REGISTRA	ala di na sana na mananaki sebeni andaki an Mananaki na kananaki sana andaki san	en ann is ann a calair i ann ann an g-ag-ag-ag-ag-

			, L.	Monte	Uny	1.691
			È-sia vantono			armeters emissission ventrisiss vanish
		DO NOT WRITE ABOVE THIS LINE. IF YOU NEED M	ORE SPACE, USE CO	NTINUATIO	N SHEET	
A COMPANY OF THE PARTY OF THE P	TITL	E OF THIS WORK:	PI	REVIOUS OF	RALTERNATI	/E TITLES:
(1)	19	79 Annual Book of ASTM Standards, Part 3;	Steel-Plates,			ļ
	She	set. Strip. Wire: Metallic Coated Products				
Title	16 4 700	modulator renations of Vision No. Issue Date				
		LICATION AS A CONTRIBUTION: (If this work was published as a co	ontribution to a periodica	l. senal, or coll	ection, give info	rmation about
	1	ollective work in which the contribution appeared?				
Sindagalada ayan maana ayan ahaan	little o	f Callectre Work	Not No Date		Pages	
(2)		IMPORTANT: Under the law the "author" of a "work made for hire" is ger was "made for hire" check. Yes in the space provided, or of that part, and leave the space for dates blank.	ierally the employer, not the ve the employer for other p	erson for whom	the work was pref	pared) as "Author"
		NAME OF AUTHOR: American Society for Testin	ng and Materia	1s		TH AND DEATH:
writtel(8)		Was this author's contribution to the work a "work made for hire" Yes			Born (Year)	Died (Year)
	-	AUTHOR'S NATIONALITY OR DOMICILE:	annet a beid heir den de neisen men bendeit fans de Andreke met den meiste ble a de men oan medden steam	WAS THIS A	AUTHOR'S CON'	TRIBUTION TO
	Applied to the second s	Citizen of Or Domiciled in	U.S.A.	THE WORK:	ous? Yes	No
		AUTHOR OF: (Briefly describe nature of this author's contribution)	Yame of Country)		ymous! Yes	No
		The same of the sa			er to either of the	
		NAME OF AUTHOR:	ne playabed income indiffer baseline of baseline reserve a new Managedor of partition below the second	A COLOR MANUAL EL STADONOMICA POR SEPARADO		TH AND DEATH:
		Was this author's contribution to the work a "work in a le for hise"? Yes	Sin		Born (Yasar)	Died (Year)
		Was this author's contribution to the wirth a "work mails for hire." Yes AUTHOR'S NATIONALITY OR DOMICILE:	(*11.)	WAS THIS A	AUTHOR'S CON	A special control of the state
	2	Citiden of Committed in		THE WORK:		
6	441	(Name of Country)	Name of Country	Aronym Psyndon		No No
		AUTHOR OF: (Briefly describe nature of this author's contribution)				hese questions is
	-	NAME OF AUTHOR:	um takanlası. Ekreulünün ühünli tüben , münyleyi romakla qışı makalaran kan	Yes see det	TDATES OF BIR	TH AND DEATH:
	-				Born	Died
-		Was this author's contribution to the work a 'work made for hire''? Yes	Per	1041A # 2440# (AUTHOR'S CON	(Ywat)
	3	AUTHOR'S NATIONALITY OR DOMICILE:		THE WORK		INDONOS TO
		STEP BECOME AND	Nation of Country)	Anonym Pseudon		No No
		AUTHOR OF: (Briefly describe nature of this author's contribution)	anggang kada sakumandah Aka " Saku dandah Astund P Ang Asiak (1986, ka T Malakka Estera ka Tananda)			hese questions is
Control to the sheet western whether	<u></u>		i dan situa mikanisa ya ministi di dina kana man dan pikanamik kikifansan dan santa makili.		ailed instructions a	
	YEA	R IN WHICH CREATION OF THIS WORK WAS COMPLETED:	DATE AND NATION O	F FIRST PU	BLICATION:	de la companya de la
(3)			Date April	1	1	979
		4 14 44 14	(A	Month)	(Day)	(Year)
and		Year 1979	Nation Unit	ed State	(S) (Country)	
Publication		(This information must be given in all cases)	(Complete this b	lock ONLY if thi	is work has been pi	ablished)
	NAM	IE(S) AND ADDRESS(ES) OF COPYRIGHT CLAIMANT(S):		As residential of the analytic constitution	THE RESERVE THE PROPERTY OF THE PARTY OF THE	La constituent and a second
	E .					
9	Ame	erican Society for Testing and Materials				
Cintrespotin)	t	16 Race Street				
	FFE	i kanda kahi in , PA 19103				

TIANGLE (If the copyright charmantis) named here in space 4 are different from the nuthor(s) named in space 2, give a brief statement of how the claimantis) obtained ownership of the copyright.)

ullet Camplete all applicable spaces (numbers 5-11) on the reverse side of this page ullet Callow detailed instructions attached

Sign the farm at line to

DO NOT WHITE HERE

	CHECKED BY COUNT FUNDS USED	APPLICATION RECEIVED DEPOSIT RECEIVED REMITTANCE NUMBER AND DATE	FOR COPYRIGHT OFFICE USE ONLY
TY' 278-720		287161 3342019	
DO NOT WRITE ABOVE THIS LINE. IF YOU NEED A	DDITIONAL SPACE, US	SE CONTINUATION SHEET (FORM TX/CO	N)
His registration for this work is for an eather version of this work, already for if your answer is "Yes," why is another registration being sought? (Check ago Disease the first published edition of a work previously registered as unput. This is the first application submitted by this author as copyright claims. This is a changed version of the work, as shown by line 6 of this application. If your answer is "Yes," give Previous Registration Southers. TX 13.	opropriate box; ublished form nt utlan	r of Registration 1978	Previous Registra- tion
COMPILATION OR DERIVATIVE WORK: (See instructions)			6
1978 Edition. Annual Book of ASTM STATEMENT ADDED TO THIS WORK. Give a brief general statement of Compilation of previously published	Standards, Part Se material that has Second de d	3 to this work and in which cooveright is claimed).	Compilation or Derivative Work
MANUFACTURERS AND LOCATIONS: (If this is a published work of	consisting prepondera to	f nondramatic literary material in English, the law	
may require that the copies be manufactured in the United States or Conactain processes, and the places where these processes were performed must NAMES OF MANUFACTURERS	be given. See instruction: ic	re trames of the manufacturers who performed cer or details) PLACES OF MANUFACTURE	Manufactur-
Waverly Press, Inc.	Easton, MD	·	
REPRODUCTION FOR USE OF BLIND OR PHYSICALLY-HAND	ICAPPED PERSONS: (5)	e instructions)	
• Signature of this form at space 10, and a check in one of the boxes here it reproduce and distribute solely for the blind and physically handicapped and fice. The representative work identified in space 1 of this application in Braille that works in 10 both. a EXCopies and phonorecords.	d under the conditions and I min	ations prescribed by the regulations of the Congright Of.	License For Handicapped
DEPOSIT ACCOUNT: (If the registration fee is to be charged to a Deposit Account established in the Copyright Office, give name and number of Account.) Yourse Account Sumber	dence about this applica	MeItzer, ASTM e Street	Fee and Correspondence
CERTIFICATION: * i, the undersigned, hereby certify that I am the (Ch Comthor Cooker copyright claimant Cowner of exclusive right(s)	and to make the make the property of the prope	1/1/25	Certification (Application must be signed)
American Society for Testi thereof 1916 Race Street Philadelphia, PA 19103		MAIL CERTIFICATE TO JULY (Certificate will be mailed in	Address For Return of Certificate

87 U.S.C. \$506 (e) Any person who knowingly makes a false representation of a material fact in the application for copyright registration provided for by section 409, or in any written statement filed in connection with the application, shall be fined not more than \$2,500.

appli ---hose marked "(X)."

Have the officer sign of printing which it state. book described in this or organization daining n this application; y, and year) tes from type set therein; or nited States, following establishments or AED SUCH TYPESETTING NG AND BINDING, ETC. te given above)

Application

for Registration of a Claim to Copyright in a published book manufactured in the United States of America

Afractions: Make sure that all applicable spaces have been before you submit the form. The application must

FORM A REGISTRATION NO. 721891 DO NOT WRITE HERE

CLASS

should see page 4.	application to the Register of Copyrights, Library of Congress
1. Copyright Claimant(s) and Address(es): Give the name(s) should be the same as in the notice of copyright on the copies deposit	and address(es) of the copyright and address(es) of the copyright and address (es)
American Society for Testing and N	owner(s). Ordinarily the name(s)
Name Name	Materials
1916 Race Street, Philadelphia, Pe	ennsylvania
Address	ennsylvania 19103
Name	
Name	***************************************
Address	
Part 4 of the 1976 Annual Book	- C A
2. Title: (Give the title of the book	of ASTM Standards: Structural Steel;
Concrete Reinforcing Steel; Pressure Ve	essel Diet -
Wheels, and Tires; Fasteners	Trace and Forgings; Steel Rails;
Wheels, and Tires; Fasteners 3. Authors: Citizenship and domicile information must be given. Where a work was made for hire, the employer is the author. The citizenship of organizations formed under U.S. Federal or State	
American Society For Testing and I (Give legal name followed by pseudonym if latter appear	Materials Citizenship U.S. (Name of country)
Domiciled in U.S.A. Yes XX No Address 1916 Race	
Omicirca in	17103
lame	Citizenship
(Give legal name followed by pseudonym if latter appear	(Name of country)
omiciled in U.S.A. Yes No Address	
(Give legal name followed by pseudonym if latter appear	Citizenship (Name of country)
(Give legal fiame followed by pseudollym if fatter appear	(Ivame of country)
miciled in U.S.A. Yes No Address	
Date of Publication of This Edition: Give the complete date	printed should not be confused with the date of publication. NOTE: The full date (month, day, and year) must be given. For
en copies of this particular edition were first placed on sale, d, or publicly distributed. The date when copies were made or	
d, or publicly distributed. The date when copies were made or February 20,	further information, see page 4. 1976 (Day) (Year)
d, or publicly distributed. The date when copies were made or February 20,	further information, see page 4. 1976 (Day) (Year) following instructions apply to this work.)
February 20, (Month) New Matter in This Version: If any substantial part of this k has been previously published anywhere, give a brief, general	further information, see page 4. 1976 (Day) (Year) following instructions apply to this work.) time in this version. New matter may consist of compilation translation, abridgment, editorial revision, and the like, as we as additional text or pictorial matter.
February 20, (Month) New Matter in This Version: If any substantial part of this k has been previously published anywhere, give a brief, general	further information, see page 4. 1976 (Day) (Year) following instructions apply to this work.) time in this version. New matter may consist of compilation translation, abridgment, editorial revision, and the like, as well as additional text or pictorial matter.
February 20, (Month) New Matter in This Version: If any substantial part of this k has been previously published anywhere, give a brief, general	further information, see page 4. 1976 (Day) (Year) following instructions apply to this work.) time in this version. New matter may consist of compilation translation, abridgment, editorial revision, and the like, as well as additional text or pictorial matter.
February 20, (Month) (NOTE: Leave line 5 blank unless the key Matter in This Version: If any substantial part of this key has been previously published anywhere, give a brief, general ement of the nature of the new matter published for the first Compilation of previously published	further information, see page 4. 1976 (Day) (Year) following instructions apply to this work.) time in this version. New matter may consist of compilation translation, abridgment, editorial revision, and the like, as well as additional text or pictorial matter. ed text and additional text.
February 20, (Month) (NOTE: Leave line 5 blank unless the New Matter in This Version: If any substantial part of this k has been previously published anywhere, give a brief, general ement of the nature of the new matter published for the first Compilation of previously published	further information, see page 4. 1976 (Day) (Year) following instructions apply to this work.) time in this version. New matter may consist of compilation translation, abridgment, editorial revision, and the like, as well as additional text or pictorial matter.

6. Book in English Previously Manufactured and Published Abroad: It all of a substantial propertiously manufactured and published abroad in the English language, complete the following space Was registration for the foreign edition made in the U.S.

Date of first publication of foreign edition ---- (Year)

Copyright Office? Yes No

If your answer is "Yes," give registration number -----Complete all applicable spaces on next page

7. If registration fee is to be charged to a deposit account established in the Copyright Office, give name of account 8. Name and address of person or organization to whom correspondence or refund, if any, should be sent: 7. If registration to whom correspondents, 1916 Race Street, Phila, Parican Society for Testing and Maddress ials, 1916 Race Street, Phila, Parican Society for Testing and Maddress ials, 1916 Race Street, Phila, Parican Society for Testing and Maddress ials, 1916 Race Street, Phila, Parican Society for Testing and Maddress ials, 1916 Race Street, Phila, Parican Society for Testing and Maddress ials, 1916 Race Street, Phila, Parican Society for Testing and Maddress ials, 1916 Race Street, Phila, Parican Society for Testing and Maddress ials, 1916 Race Street, Phila, Parican Society for Testing and Maddress ials, 1916 Race Street, Phila, Parican Society for Testing and Maddress ials, 1916 Race Street, Phila, Parican Society for Testing and Maddress ials, 1916 Race Street, Phila, Parican Society for Testing and Maddress ials, 1916 Race Street, Phila, Parican Society for Testing and Maddress ials, 1916 Race Street, Phila, Parican Society for Testing and Phila, Phila, Parican Society for Testing and Phila, American Society for Testing and Materials 9. Send certificate to: (Number and street) 1916 Race Street (Type or Name Philadelphia, Pennsylvania 19103 print name and (ZIP code) address) Address I CERTIFY that the statements made by me in this application are correct to the best of my knowledge. 10. Certification: (NOTE: Application not acceptable unless signed) (Signature of copyright claimant or duly authorized agent) A. L. Batik (Signature or copyright

(All the affidavit of the late of execution)

(Signature or copyright

(Signature or copyright

(Signature or copyright

(All the affidavit of the late of execution)

(Signature or copyright

(All the affidavit of publication or completion)

(Signature or copyright

(All the affidavit of publication or completion)

(Signature or copyright

(All the affidavit of publication or completion)

(All the affidavit and fill in the date of execution) the affidavit before an office and office the date of execution.

Indeed the affidavit and fill in the date of execution.

NOTE: The affidavit must be signed and notarized only on or after the date of publication or completion of printing which it states.

NOTE: The affidavit must be signed by an individual. and seal the affidavit and fill in the date of execution. The affidavit must be signed by an individual. Person claiming copyright in the book described in this 2. Title: XXX Duly authorized agent of the person or organization claiming copyright in the book described in this application;

Printer of the book described in this application. Pennsylvania Philadelphia COUNTY OF That, of the various processes employed in the production of the copies deposited, the setting of the type was performed within the limits of the United States from type set therein; or limits of the United States or the making of the plates was performed within the limits of the United States, the lithographic or photoengraving processes used in producing the text were wholly performed within the limits of the United States, the lithographic or photoengraving processes used in producing the text were wholly performed within the limits of the United States, the lithographic or photoengraving processes used in producing the text were wholly performed within the limits of the United States, and the binding (if any) were also performed within the limits of the United States. the inthographic of photoengraving processes used in producing and that the printing of the text and the binding (if any) were also performed within the limits of the United States. That such type and that the printing of the text and the binding (if any) were also performed within the limits of the United States. That such type and that the printing of the text and the binding (in the), setting, platemaking, lithographic or photoengraving process, printing, and binding were performed by the following establishments or (GIVE THE NAMES AND ADDRESSES OF THE PERSONS OR ORGANIZATIONS WHO PERFORMED SUCH TYPESETTING OR PLATEMAKING OR LITHOGRAPHIC PROCESS OR PHOTOENGRAVING PROCESS OR PRINTING AND BINDING, ETC.) Names (X) Waverly Press, Inc. Addresses (X) Easton, Maryland (Signature of laffiant) (Sign and notarize only on or after date given above) Subscribed and sworn to before me this PLACE NOTARIAL SEAL HERE FOR COPYRIGHT OFFICE USE ONLY Application and affidavit received Two copies received Fee received 72440 Renewal U.S. GOVERNMENT PRINTING OFFICE: 1974-O-536-761

3. Authors
Where a W

citizenship law should

Name

Domiciled

Name

Domiciled

Domicile

sold, o

CERTIFICATE OF 1212 GYSTRATION Document 1

Document 198-7 Filed 10/0 TORM 9 0 49
UNITED STATES COPYRIGHT OFFICE

REGIS

É



This Certificate issued under the seal of the Copyright Office in accordance with title 17, United States Code, attests that registration has been made for the work identified below. The information on this certificate has been made a part of the Copyright Office records.



Marybeth Peters
REGISTER OF COPYRIGHTS

effective date of registration

3 19 96

OFF	CIAL SEAL	United States of America	Medinan	Day Year	
	DO NOT WRITE ABOVE THIS LINE. IF YOU N	IEED MORE SPACE, USE A SEPARATE	CONTINUATION SHE	ET.	
1000-5 • 1 9 • 2000-000000000000000000000000000000000	TITLE OF THIS SERIAL ▼	1 lam and	Hood Day	Justo -	*********
	TITLE OF THIS SERIAL ▼ 1996 Annual Book of ASTM S	tandards:	our pur	cacos -	
3	Stool - Pining	Tuling Fit	tenso		
	Volume ▼ Number ▼	Date on Copies ♥	Frequency of Publica	tion T	
	volume 4		• •		
	OI OI	January 96		Annual	
	PREVIOUS OR ALTERNATIVE TITLES 🔻				
	NAME OF AUTHOR ▼		DATES OF BIRTH	AND DEATH	XXXXXXXXXX
	A.	time -mi Wataniala	Year Born ▼	Year Died ♥	
L. S. C. S.	Was this contribution to the work a "work made for hire"? Name of Countr	NATIONALITY OR DOMICILE	WAS THIS AUTHO	OR'S CONTRIBUTION If the answe	
	Yes (Citizen o	of D	Anonymous?] Yes 🗌 No of these que	estions is
MOTE	□ No Domicik	d in Duited States		Yes No Yes," see d	
	• • • •	moure of the material created by this author in t	which copyright is claime	1 T	
he author of a	□ Collective Work Other: Entire	Text			
'work made for hire" is generally	NAME OF AUTHOR ▼	•	DATES OF BIRTH Year Born ♥	AND DEATH Year Died ▼	
	"				
	West and AUTHOR'S	NATIONALITY OR DOMICILE	WAS THIS AUTHO	OR'S CONTRIBUTION	ITG
	"work made for hire"? Name of countr	1	THE WORK _	If the answe	er to either
	OR Citizen			Yes, see d	tetailed
	*	nature of the material created by this author in		- MISTOCIONS	1-
	Collective Work Other:	and to the national cleaned by this action in	when topying in 15 canne		
	NAME OF AUTHOR ♥		DATES OF BIRTH		
	r		Year Born ▼	Year Died ▼	
	→" 20				
	"work made for hire"? Name of Countr	NATIONALITY OR DOMICILE	WAS THIS AUTHO	OR'S CONTRIBUTION If the answer	
	*		• -	Yes No of these que	
		ed in ▶		Yes No instructions	
		ature of the material created by this author in v	which copyright is claimed	1. ♥	
egggggggggggggggg	Collective Work Other:			PARTICULAR ISSUE	200000000
	YEAR IN WHICH CREATION OF THIS SISSUE WAS COMPLETED This information	Complete this information Month	INDIM-DOLLAR	tilbutte on the foods	
	1996 Year in all cases.	ONLY If this work has been published. U.S.A.	Uay D	(/ / ~	■ Nation
	COPYRIGHT CLAIMANT(S) Name and addres		APPLICATION RE	CEIVED	0000000000
1	same as the author given in space 2.	a mast be Bress each in the comment to the	MAC 1 9 1		
fan fa	American Society for Te	sting & Materials	ONE DEPOSIT RE		
See vistructions	1916 Race Street		E D		
balare completing		3-1187	TWO DEPOSITS R	ECEIVED 0.0	
e an athering	TRANSFER If the claimant(s) named here in space	4 are different from the author(s) named	PE REMITTANCE NU		
	in cases 2 give a brief statement of how the claiman		12E		

	Carried a	
	E AMINEO BY	FORM SE
	CHECKER BY AWD	_
	CORRESPONDENCE	FOR
	Yes and the second seco	COPYRIGHT OFFICE
		USE ONLY
DO NOT WRITE ABOVE THIS LINE. IF YOU NEED MORE SPACE, US	E A SEPARATE CONTINUATION SHEET.	
REVIOUS REGISTRATION Has registration for this issue, or for an earlier version of this Yes No If your answer is "Yes," why is another registration being sought? (Check appro	particular issue, already been made in the Copyright Office?	
☐ This is the first published version of an issue previously registered in unpublished form.	() () () () () () () () () ()	
☐ This is the first application submitted by this author as copyright claimant. ☐ This is a changed version of this issue, as shown by space 6 on this application.	er e	******
your answer is "Yes," give: Previous Registration Number ▼ Year of Rr-i TX# 4-0/3-5/ 1995	stration Vision State on 1985	
ERIVATIVE WORK OR COMPILATION Complete both space 62 & 66 for a degination	work; complete only 6b for a compilation	· · · · · · · · · · · · · · · · · · ·
Preexisting Material Identify any preexisting work or works that this work is based on or in 995 Annual Book of ASTM Standards, Section	COPPORATOR W	
	Secretary Section	
Material Added to This Work Give a brief, general statement of the material that has been accompilation of previous published text plus	deed to this work and in which copyright is claimed.	See instructions before completing
	Sagioronal Ceat.	this space
1 1		
—space delet	ed—	
PRODUCTION FOR LICE OF BUILD OR REPORT	and the state of t	**
FRODUCTION FOR USE OF BLIND OR PHYSICALLY HANDICAPPED INDIV	IDIALS	
PRODUCTION FOR USE OF BLIND OR PHYSICALLY HANDICAPPED INDIV seck in one of the boxes here in space 8, constitutes a non-exclusive grant of permission to the Libra I physically handicapped and under the conditions and limitations prescribed by the regulations of	ry of Congress to reproduce and distribute solely for the blind	
d physically handicapped and under the conditions and limitations prescribed by the regulations of this application in Braille (or similar tactile symbols) for (2) phonorecords embodying a fixation	ry of Congress to reproduce and distribute solely for the blind f the Copyright Office (1) copies of the workidentified in space of a reading of that work; or (3) both	
d physically handicapped and under the conditions and limitations prescribed by the appeal of the Libra	ry of Congress to reproduce and distribute solely for the blind	See instructions
d physically handicapped and under the conditions and limitations prescribed by the regulations of thus application in Braille (or similar tactile symbols) or (2) phonorecords embodying a fixation. Copies and Phonorecords Copies Only EPOSIT ACCOUNT If the registration fee is to be charged to a Deposit Account established.	iry of Congress to reproduce and distribute solely for the blind the Copyright Office: (1) copies of the work dentified in space of a reading of that work; or (3) both. C Phonometer's Only in the Copyright Office, give name and number of Account.	See instructions
d physically handicapped and under the conditions and limitations prescribed by the regulations of thus application in Braille (or similar factile symbols) (2) phonorecords embodying a fixation below Copies and Phonorecords EPOSIT ACCOUNT If the registration fee is to be charged to a Deposit Account established Account Number Account Number	iry of Congress to reproduce and distribute solely for the blind of the Copyright Office: (1) copies of the work dentified in space of a reading of that work; or (3) both. C Phonometers Only In the Copyright Office, give name and number of Account.	See instructions
d physically handicapped and under the conditions and limitations prescribed by the regulations of thus application in Braille (or similar tactile symbols); or (2) phonorecords embodying a fixation Copies and Phonorecords EPOSIT ACCOUNT If the registration fee is to be charged to a Deposit Account established Account Number Copies and Phonorecords Account Number Copies Only	iry of Congress to reproduce and distribute solely for the blind of the Copyright Office: (1) copies of the work dentified in space of a reading of that work; or (3) both. C Phonometers Only In the Copyright Office, give name and number of Account.	See instructions
d physically handicapped and under the conditions and limitations prescribed by the regulations of thus application in Braille (or similar tactile symbols); or (2) phonorecords embodying a fixation of this application in Braille (or similar tactile symbols); or (2) phonorecords embodying a fixation of the copies and Phonorecords EPOSIT ACCOUNT If the registration fee is to be charged to a Deposit Account established and the property of the p	iry of Congress to reproduce and distribute solely for the blind of the Copyright Office: (1) copies of the work dentified in space of a reading of that work; or (3) both. C Phonometers Only In the Copyright Office, give name and number of Account.	See instructions
d physically handicapped and under the conditions and limitations prescribed by the regulations of this application in Braille (or similar factile symbols) (or (2) phonorecords embodying a fixation by Copies and Phonorecords EPOSIT ACCOUNT If the registration fee is to be charged to a Deposit Account established the registration fee is to be charged to a Deposit Account established the registration fee is to be charged to a Deposit Account established the registration fee is to be charged to a Deposit Account established the registration fee is to be charged to a Deposit Account established the registration fee is to be charged to a Deposit Account established the registration fee is to be charged to a Deposit Account established the registration fee is to be charged to a Deposit Account established the registration fee is to be charged to a Deposit Account established the registration fee is to be charged to a Deposit Account established the registration fee is to be charged to a Deposit Account established the registration fee is to be charged to a Deposit Account established the registration fee is to be charged to a Deposit Account established the registration fee is to be charged to a Deposit Account established the registration fee is to be charged to a Deposit Account established the registration fee is to be charged to a Deposit Account established the registration fee is to be charged to a Deposit Account established the registration fee is to be charged to a Deposit Account established the registration fee is to be charged to a Deposit Account established the registration fee is to be charged to a Deposit Account established the registration fee is to be charged to a Deposit Account established the registration fee is to be charged to a Deposit Account established the registration fee is to be charged to a Deposit Account established the registration fee is to be charged to a Deposit Account established the registration fee is to be charged to a Deposit Account established the registration fee is to	in the Copyright Office. (I) copies of the work identified in space of a reading of that work; or (3) both. C Phonometers Only I in the Copyright Office, give name and number of Account.	See instructions Be sure to give your daytime phone
d physically handicapped and under the conditions and limitations prescribed by the regulations of thus application in Braille (or similar tactile symbols); or (2) phonorecords embodying a fixation to the Libration of the application in Braille (or similar tactile symbols); or (2) phonorecords embodying a fixation of the application of the application of the phonorecords by Copies and Phonorecords EPOSIT ACCOUNT If the registration fee is to be charged to a Deposit Account established and the phonorecords of the phonore	in the Copyright Office. (I) copies of the work identified in space of a reading of that work; or (3) both. C Phonometers Only I in the Copyright Office, give name and number of Account.	
d physically handicapped and under the conditions and limitations prescribed by the regulations of thus application in Braille for similar tactile symbols); or (2) phonorecords embodying a fixation. Copies and Phonorecords EPOSIT ACCOUNT If the registration fee is to be charged to a Deposit Account established and the registration fee is to be charged to a Deposit Account established and the registration fee is to be charged to a Deposit Account established and the registration fee is to be charged to a Deposit Account established and the registration fee is to be charged to a Deposit Account established and the registration fee is to be charged to a Deposit Account established and the registration fee is to be charged to a Deposit Account established and the registration fee is to be charged to a Deposit Account established and the registration fee is to be charged to a Deposit Account established and the registration fee is to be charged to a Deposit Account established and the registration fee is to be charged to a Deposit Account established and the registration fee is to be charged to a Deposit Account established and the registration fee is to be charged to a Deposit Account established and the registration fee is to be charged to a Deposit Account established and the registration fee is to be charged to a Deposit Account established and the registration fee is to be charged to a Deposit Account established and the registration fee is to be charged to a Deposit Account established and the registration fee is to be charged to a Deposit Account established and the registration fee is to be charged to a Deposit Account established and the registration fee is to be charged to a Deposit Account established and the registration fee is to be charged to a Deposit Account established and the registration fee is to be charged to a Deposit Account established and the registration fee is to be charged to a Deposit Account established and the registration fee is to be charged to a Deposit Account established and the	in the Copyright Office (1) copies of the work dentified in space of a reading of that work; or (3) both. C □ Phonometer's Only In the Copyright Office, give name and number of Account. A Solution of Account. Name: Address: Apt City State Zip ▼	give your daytime phone
d physically handicapped and undershe conditions and limitations prescribed by the regulations of thus application in Braille (or similar tactile symbols); or (2) phonorecords embodying a fixation by Copies and Phonorecords EPOSIT ACCOUNT If the registration fee is to be charged to a Deposit Account established Account Number Account Number ORRESPONDENCE Give name and address to which correspondence about this application Robert L. Meltzer, ASTM 1916 Race Street Philadelphia, PA 19103–1187 Area Code & Telephone Number 215–299 ERTIFICATION* I, the undersigned, hereby certify that I am the Check one Account other copyright of the copyright o	in the Copyright Office, (1) copies of the work dentified in space of a reading of that work; or (3) both. □ Phonometer's Only In the Copyright Office, give name and number of Account. 1 should be sent. Name Address Apt City State Zip ▼	give your daytime phone
d physically handicapped and under the conditions and limitations prescribed by the regulations of thus application in Braille (or similar tactile symbols); or (2) phonorecords embedying a fixation. Copies and Phonorecords EPOSIT ACCOUNT If the registration fee is to be charged to a Deposit Account established account and the registration fee is to be charged to a Deposit Account established account and this application. EPOSIT ACCOUNT If the registration fee is to be charged to a Deposit Account established account and address to which correspondence about this application. EPOSIT ACCOUNT If the registration fee is to be charged to a Deposit Account established account and address to which correspondence about this application. EPOSIT ACCOUNT If the registration fee is to be charged to a Deposit Account established. Account Number account and address to which correspondence about this application. ROBERTON I MELIZER, ASTM 1916 Race Street Philadelphia, PA 19103-1187 Area Code & Telephone Number 215-299 EXTIFICATION I, the undersigned, hereby certify that I am the check one only on the copyright of owner of exclusion where work identified in this application and that the statements made contains a property of the content	rry of Congress to reproduce and distribute solely for the blind of the Copyright Office: (1) copies of the work identified in space of a reading of that work; or (3) both. c □ Phonometer's Only In the Copyright Office, give name and number of Account. 72338 n should be sent. Name Address Apt City State Zip ▼ -5431 claimant we right(s) American Society	give your daytime phone ◀ number
d physically handicapped and undershe conditions and limitations prescribed by the regulations of thus application in Braille (or similar tactile symbols); or (2) phonorecords embedying a fixation by Copies and Phonorecords EPOSIT ACCOUNT If the registration fee is to be charged to a Deposit Account established the registration fee is to be charged to a Deposit Account established to the property of the registration fee is to be charged to a Deposit Account established to the property of the registration fee is to be charged to a Deposit Account established to the property of the registration fee is to be charged to a Deposit Account established to the property of the registration fee is to be charged to a Deposit Account established to the property of the registration fee is to be charged to a Deposit Account established to the property of the correspondence about this application and address to which correspondence about this application and that the statements made to the work identified in this application and that the statements made the work identified in this application and that the statements made the work identified in this application and that the statements made the work identified in this application and that the statements made the work identified in this application and that the statements made the work identified in this application and that the statements made the work identified in this application and that the statements made the work identified in this application and that the statements made the work identified in this application and that the statements made the work identified in this application and that the statements made the work identified in this application and that the statements made the work identified in this application are correct to the best of my knowledge.	ary of Congress to reproduce and distribute solely for the blind of the Copyright Office: (1) copies of the work identified in space of a reading of that work; or (3) both. C Phonometer's Only In the Copyright Office, give name and number of Account. An abould be sent. Name Address Api City State Zip ▼ -5431 Claimant we right(s) American Society of for Testing and Material: the of author or other copyright claimant, or owner of exclusive right(s) A	give your daytime phone ◀ number
d physically handicapped and under the conditions and limitations prescribed by the regulations of this application in Braille for similar tactile symbols (100 phonorecords embedying a fixation and limitations prescribed by the regulations of this application in Braille for similar tactile symbols (100 phonorecords embedying a fixation by Copies and Phonorecords EPOSIT ACCOUNT If the registration fee is to be charged to a Deposit Account established Account Number Copies Only EPOSIT ACCOUNT If the registration fee is to be charged to a Deposit Account established Account Number Population Robert L. Meltzer, ASTM 1916 Race Street Philadelphia, PA 19103-1187 Area Code & Telephone Number Population of exclusive me work identified in this application and that the statements made me in this application are correct to the best of my knowledge. Race of printed name and date V If this application gives a date of publication in space 3, do not signed.	ary of Congress to reproduce and distribute solely for the blind of the Copyright Office: (1) copies of the work identified in space of a reading of that work; or (3) both. C Phonometer's Only In the Copyright Office, give name and number of Account. An abould be sent. Name Address Api City State Zip ▼ -5431 Claimant we right(s) American Society of for Testing and Material: the of author or other copyright claimant, or owner of exclusive right(s) A	give your daylime phone ◀ number
d physically handicapped and undershe conditions and limitations prescribed by the regulations of thus application in Braille (or similar tactile symbols); or (2) phonorecords embedying a fixation by Copies and Phonorecords EPOSIT ACCOUNT If the registration fee is to be charged to a Deposit Account established the registration fee is to be charged to a Deposit Account established to the property of the registration fee is to be charged to a Deposit Account established to the property of the registration fee is to be charged to a Deposit Account established to the property of the registration fee is to be charged to a Deposit Account established to the property of the registration fee is to be charged to a Deposit Account established to the property of the registration fee is to be charged to a Deposit Account established to the property of the correspondence about this application and that the statements made to the property of the property of the copyright of the work identified in this application and that the statements made the work identified in this application and that the statements made the work identified in this application and that the statements made the work identified in this application and that the statements made the work identified in this application and that the statements made the work identified in this application and that the statements made the work identified in this application and that the statements made the work identified in this application and that the statements made the work identified in this application and that the statements made the work identified in this application and that the statements made the work identified in this application and that the statements made the work identified in this application and that the statements in the property of the	ary of Congress to reproduce and distribute solely for the blind of the Copyright Office: (1) copies of the work identified in space of a reading of that work; or (3) both. C Phonometer's Only In the Copyright Office, give name and number of Account. An abould be sent. Name Address Api City State Zip ▼ -5431 Claimant we right(s) American Society of for Testing and Material: the of author or other copyright claimant, or owner of exclusive right(s) A	give your daylime phone ◀ number
d physically handicapped and under the conditions and limitations prescribed by the regulations of thus application in Braille (or similar tactile symbols); or (2) phonorecords embodying a fixation. Copies and Phonorecords EPOSIT ACCOUNT If the registration fee is to be charged to a Deposit Account established Account Number Correspondence about this application. ROBERT L. Meltzer, ASTM 1916 Race Street Philadelphia, PA 19103-1187 Area Code & Telephone Number 215-299. RTIFICATION* I, the undersigned, hereby certify that I am the Check one has work identified in this application and that the statements made me in this application are correct to the best of my knowledge. Red or printed name and date V If this application gives a date of publication in space 3, do not signed.	ary of Congress to reproduce and distribute solely for the blind of the Copyright Office: (1) copies of the work identified in space of a reading of that work; or (3) both. C Phonometer's Only In the Copyright Office, give name and number of Account. An abould be sent. Name Address Api City State Zip ▼ -5431 Claimant we right(s) American Society of for Testing and Material: the of author or other copyright claimant, or owner of exclusive right(s) A	give your daytime phone ◀ number
d physically handicapped and under the conditions and limitations prescribed by the regulations of thus application in Braille (or similar tactile symbols) (or s	ary of Congress to reproduce and distribute solely for the blind of the Copyright Office: (1) copies of the work identified in space of a reading of that work; or (3) both. C Phomosecords Only In the Copyright Office, give name and number of Account. A should be sent. Name: Address Apt City State Zip ▼ Claimant we right(s) American Society tof for Testing and Material: The of author or other copyright claimant, or owner of exclusive right(s) and submit it before that date. date ▶ March /3	give your daytime phone
d physically handicapped and under the conditions and limitations prescribed by the regulations of thus application in Braille (or similar tactile symbols) or (2) phonorecords embodying a fination by Copies and Phonorecords EPOSIT ACCOUNT If the registration fee is to be charged to a Deposit Account established Account Number Copies Only EPOSIT ACCOUNT If the registration fee is to be charged to a Deposit Account established Account Number Copies Only EPOSIT ACCOUNT If the registration fee is to be charged to a Deposit Account established Account Number Copies Only EPOSIT ACCOUNT If the registration fee is to be charged to a Deposit Account established Account Number Copies Only EPOSIT ACCOUNT If the registration fee is to be charged to a Deposit Account established Account Number Copies Only EPOSIT ACCOUNT If the registration fee is to be charged to a Deposit Account established Account Number Copies Only Account Number Account Number Position Reposition Number Position Number Position Reposition Number Position Copies Only EPOSIT ACCOUNT If the registration fee is to be charged to a Deposit Account established Account Number Position Number Position Number Position Reposition Number Position Number Position Number Position Number Position Only Number Position Num	ary of Congress to reproduce and distribute solely for the blind of the Copyright Office: (1) copies of the work identified in space of a reading of that work; or (3) both. C Phonometer's Only In the Copyright Office, give name and number of Account. A should be sent. Name: Address: Apt City State Zip ▼ -5431 Claimant we right(s) American Society of for Testing and Material: me of author or other copyright claimant, or owner of exclusive right(s) and submit it before that date. date ➤ March /3	give your daylime phone ◀ number
d physically handicapped and under the conditions and limitations prescribed by the regulations of thus application in Braille for similar factile symbols ("Or (2) phonorecords embodying a fixation by Copies and Phonorecords EPOSIT ACCOUNT If the registration fee is to be charged to a Deposit Account established the registration fee is to be charged to a Deposit Account established the registration fee is to be charged to a Deposit Account established the registration fee is to be charged to a Deposit Account established the registration fee is to be charged to a Deposit Account established the registration fee is to be charged to a Deposit Account established the registration fee is to be charged to a Deposit Account established the registration fee is to be charged to a Deposit Account established the registration fee is to be charged to a Deposit Account established the registration fee is to be charged to a Deposit Account established to the registration fee is to be charged to a Deposit Account established the registration fee is to be charged to a Deposit Account established to a Deposit Account es	ary of Congress to reproduce and distribute solely for the blind of the Copyright Office: (1) copies of the work identified in space of a reading of that work; or (3) both. C Phomosecords Only In the Copyright Office, give name and number of Account. A should be sent. Name: Address Apt City State Zip ▼ Claimant we right(s) American Society tof for Testing and Material: The of author or other copyright claimant, or owner of exclusive right(s) and submit it before that date. date ▶ March /3	give your daylime phone
Account established by the regulations of thus application in Braille (or similar tactile symbols) for (2) phonorecords embodying a fixation and phonorecords EPOSIT ACCOUNT If the registration fee is to be charged to a Deposit Account established account established account and address to which correspondence about this application Robert L. Meltzer, ASTM 1916 Race Street Philadelphia, PA 19103–1187 Area Code & Telephone Number 215–299 EXTIFICATION* I, the undersigned, hereby certify that I am the check one be in this application and that the statements made me in this application are correct to the best of my knowledge. Named or printed name and date V If this application gives a date of publication in space 3, do not six Robert L. Meltzer Kathe Hooper, ASTM Name V Kathe Hooper, ASTM Number Street Apartment Number V	ary of Congress to reproduce and distribute solely for the blind of the Copyright Office: (1) copies of the work identified in space of a reading of that work; or (3) both C Phonometer's Only The Copyright Office, give name and number of Account. Phonometer's Only In the Copyright Office, give name and number of Account. American Society of for Testing and Material: the of author or other copyright claimant, or owner of exclusive right(s) American society and submit it before that date. date ▶ March 13 Complete all racessary spaces Sign your application in space 10	give your daylime phone
Account stablished with a policy of constitutes a non-exclusive grant of permission to the Libra of physically handicapped and under the conditions and limitations prescribed by the regulations of thus application in Braille (or similar tactile symbols) for (2) phonorecords embodying a fixation of the property of the regulations of the physically of the regulations of the physical	ary of Congress to reproduce and distribute solely for the blind of the Copyright Office: (1) copies of the work identified in space of a reading of that work; or (3) both c □ Phomometer's Only Lin the Copyright Office, give name and number of Account. 78338 In should be sent. Name: Address Api City State Zip ▼ 1. Application form 2. Norrefundable \$20 filing fee in check or maney order of payable to Register of Copyrights	give your daytime phone
Account established by the regulations of thus application in Braille (or similar tactile symbols) from (2) phonorecords embodying a fixation of thus application in Braille (or similar tactile symbols) from (2) phonorecords embodying a fixation of thus application in Braille (or similar tactile symbols) from (2) phonorecords embodying a fixation of the regulations of the symbols	ary of Congress to reproduce and distribute solely for the blind of the Copyright Office: (1) copies of the work identified in space of a reading of that work; or (3) both C Phonometer's Only The Copyright Office, give name and number of Account. Phonometer's Only I in the Copyright Office, give name and number of Account. American Society I of for Testing and Material: The of author or other copyright claimant, or owner of exclusive right(s) American society I date ► March 13 Complete all racessary spaces Sign your application in space 10 1. Application from 2. Norredundable \$20 filing fee in check or money order	give your daytime phone

CERTIFICATE QUE COPYRIGHE PEGISTICATION FILED 10/07/15 PRINTED STATES COPYRIGH COPYRIGHT OFFICE





This certificate, issued under the seal of the Copyright Office in accordance with the provisions of section 410(a) of title 17, United States Code, attests that copyright registration has been made for the work identified below. The information in this certificate has been made a part of the Copyright Office records.

REGISTRATION NUMBER

3 043-643 TX

EFFECTIVE DATE OF REGISTRATION

APR 15 1991

OFFICE	AL SEAL		ER OF COPYRIGHTS ted States of America	Month	Day	- Year
	DO NOT WRITE ABOVE THIS	LINE. IF YOU NEED MO	RE SPACE, USE A SEPAR	ATE CONTINUATION S	HEET	
	TITLE OF THIS SERIAL ▼ 1991 Annual Book SIEEL - PiPIN	of ASTM Sta	ndards: <i>IRoN</i>			es:
		ımber ♥	Date on Copies 🔻	Frequency of Pul	elication 🔻	
	01.01	01	JANUARY		WNUAL	
	PREVIOUS OR ALTERNATIV	E TITLES 🔻			/////////////////////////////////////	*******************************
	NAME OF AUTHOR V	y for Testin		Year Born ♥	TH AND DEAT Year Died	H H 1 ▼
	Was this contribution to the work a "work made for hire"?	AUTHOR'S NATION Name of Country	ALITY OR DOMICILE	WAS THIS AUT	THOR'S CONTR	
A 1 4 mm	Yes No	OR Citizen of	nited States	Anonymous?	☐ Yes ☐ No	If the answer to eithe of these questions is 'Yes.' see detailed
NOTE	***************************************		e material created by this autho	Pseudonymous?	☐ Yes ☐ No	instructions
Under the law,	☐ Collective Work Other:	Entire Text			unea.	
	NAME OF AUTHOR ▼			DATES OF BIR	TH AND DEAT Year (No.	
* ~ ~	Was this contribution to the work a "work made for hire"?	Name of country (Citizen of ▶	ALITY OR DOMICILE	THE BALC NOW	THOR'S CONTI	UBUTION TO
	□ No		***************************************		☐ Yes ☐ No	Yes, see detailed instructions.
ā		Briefly describe nature of th	e material created by this autho	or in which copyright is cla	imed. ▼	***************************************
04 16	NAME OF AUTHOR ▼	***************************************		DATES OF BIK Year Born ▼	TH AND DEATH Year Diec	
	Was this contribution to the work a "work made for hire"?	AUTHOR'S NATION	ALITY OR DOMICILE	THE WALKS HOLD	THOR'S CONTR	
	∐ Yes	OR { Citizen of >	***************************************		☐ Yes ☐ No	If the answer to either of these questions is
	NATURE OF AUTHORSHIP		***************************************	<u></u>	☐ Yes ☐ No	Yes 'see detailed instructions
	Collective Work Other:	Snelly describe nature of the	material created by this autho	r in which copyright is clai	med. ▼	
	YEAR IN WHICH CREATION ISSUE WAS COMPLETED	OF THIS DATE Information It be given Ossi V	AND NATION OF FIRST	PUBLICATION OF TH	IIS PARTICULA	R ISSUE
Mar. 186	1991 • Year in a		published U.S.A	CONTRACTOR		
/ i	COPYRIGHT CLAIMANT(S) N same as the author given in space 2.	ame and address must be g	iven even if the claimant is the	APPLICATION	RECEIVED	
	American Society	_	& Materials	ONE DEPOSIT	RECEIVED	(.)((.)(.)(.)(.)(.)(.)(.)(
See instructions before completing	1916 Race Street		7	To TWO DEPOSIT	e DECENED	
this space	ruitadelphia, ra				S RECEIVED	
	TRANSFER If the claimant(s) nam in space 2, give a brief statement of	ed nere in space 4 are diffen how the claimant(s) obtained	ent from the author(s) named d ownership of the copyright.	OF THE PROPERTY AND PARTY	NUMBER AND DAT	***************************************
***************************************	MORE ON BACK ▶ • Complete • See detail	all applicable spaces (numbers :	5-11) on the reverse side of this page Sign the form at line 10			MOT MITTE HEIRE

Case 1:13-cv-01215-TSC Document 198-7 Filed 10/07/19 Page 46 of 49 300000 (1.500 disc) (1.500 disc) FORM SE 3 043-643 TX CORRESPONDENCE FOR COPYRIGHT OFFICE USE do not write above this line. If you need more space, use a separate continuation sheet. PREVIOUS REGISTRATION Has registration for this issue, or for an earlier version of this particular issue, already been made in the Copyright Office? 🐉 Yes 🖂 No - If your answer is "Yes," why is another registration being sought? (Check appropriate box) 💗 a. [] This is the first published version of an issue previously registered in unpublished form. b. [] This is the first application submitted by this author as copyright claimant. c. [] This is a changed version of this issue, as shown by space 6 on this application, If your answer is "Yes," give. Previous Registration Number V Year of Registration ¥ DERIVATIVE WORK OR COMPILATION Complete both space 6a & 6b for a derivative work; complete only 6b for a compilation Preexisting Material Identify any preexisting work or works that this work is based on or incorporates.
 1990 Annual Book of ASTH Standards, Section 6/, **Volume** See antropions Material Added to This Work Give a brief, general statement of the material that has been added to this work and in which copyright is claimed. etore completing Compilation of previous published text plus additional text. this space 400000 -space deleted— REPRODUCTION FOR USE OF BLIND OR PHYSICALLY HANDICAPPED INDIVIDUALS A signature on this form at space 10, and a check in one of the boxes here in space 8, constitutes a non-exclusive grant of permission to the Library of Congress to reproduce and distribute solely for the blind and physically handicapped and under the conditions and limitations prescribed by the regulations of the Copyright Office: (1) copies of the work identified in space 1 of this application in Braille (or similar tactile symbols); or (2) phonorecords embodying a fixation of a reading of that work; or (3) both Copies and Phonorecords b Copies Only c Phonerecords Only DEPOSIT ACCOUNT. If the registration fee is to be charged to a Deposit Account established in the Copyright Office, give name and number of Account Name * Account Number V CORRESPONDENCE Give name and address in which correspondence about this application should be sent. Name: Address Ant Cay State Zot • Robert L. Meltzer, ASTM 1916 Race Street Se sure to daylime phone <u>Philadelphia, PA</u> Code & Telephone Number > 215-299-5431 es number CEXTIFICATION* 1, the undersigned, hereby certify that I am the C Bertror O other copyright claimant Check one be Owner of exclusive right(s) American Society of the work identified in this application and that the statements made (** authorized agent of for Testing and Materials

Name of subor or other sopyright claimant, or owner of exclusive rights) a by me in this application are correct to the best of my knowledge Typed or printed name and date V If this application gives a date of publication in space 3, do not sign and submit it before that date. Robert L. Meltzer Handwritten sanature (X) MAIL Complete all necessary space CERTIFI-Kathe Hooper, ASTM CATE TO Number Street, Apartment Number & Application form Nonrefundable \$20 liking lee Certificate 1916 Race Street in pheck or money order payable to Pegisler of Copyrights will be 3. Deposit material mailed in Philadelphia, PA 19103-1187 window envelope zurary or Congress Vashington, D.C. 20659

* 17 U.S.C. 4 506(e). Any person who knowingly makes a false representation of a material fact in the application for copyright (agistration provided for by section 409, or in any winter in the end of

connection with the application, shall be fined not more than \$2,500

December 1990---75,000

AU.S. GOVERNMENT PRINTING OFFICE 1990-280-170/20,005

good for Registration of a Claim to Copyright good manufactured in the United States of A subjected book manufactured in the United States of A subjected bo FORM A CLASS REGISTRATION NO Make sure that all applicable spaces have been must the form. The application must as page as polication should not be application should not be application given in line 4, and of the date of publication given in line 4, and of the work are facts which existed on that date. For further Pages 1 and 2 should be typewritten or printed with pen and ink. Pages 3 and 4 should contain exactly the same information as pages 1 and 2, but may be carbon copies. Mail all pages of the application to the Register of Copyrights, Library of Congress, Washington, D.C. 20540, together with 2 copies of the best edition Register of Copyrights.

American Society for Testing and Materials

American Society for Testing and Materials of the work and the registration fee of \$6. Make your remittance American Society for Testing and Materials 1916 Race St., Phila., Pa. 19103 Part 4 - 1972 Annual Book of ASTM Standards -- Structural Steel; Concrete Reinforcing Steel; Pressure Vessel Plate; Steel Rails, Wheels, and Tires; Bearing-Steel; -Steel-Forgingsen. translators, illustrators, etc., as well as authors of original text.

le If the copyright claim is based on new matter (see line 5) give requested information about the author of the new matter. 1 Authors: Citizenship and domicile information must be given. I Authors: Cluzensing for hire, the employer is the author. The March 2, 1972

Cive month, day, and year) There a work was made for fine, the employer is the author. The authors of organizations formed under U.S. Federal or State with the stated as U.S.A. Authors may be editors, compilers, erials Citizenship U.S.

(Name of country) American Society for Testing and Materials

(Give legal name followed by pseudonym if latter appears on the copies) the setting of the type was performed with a line of the United States from type with the United St performed within the limits of the linin the limits of the United States. That make the were performed by the following establishmen (Name of country) IONS WHO PERFORMED SUCH TIPESETTING (Give legal name followed by pseudonym if latter appears on the copies) PROCESS OR PRINTING AND BINDING TIL 50 Kellogg Boulevard Citizenship (Name of country) St. Paul, Minnesota 5512 (Give legal name followed by pseudonym if latter appears on the copies) printed should not be confused with the date of publication. NOTE: The full date (month, day, and year) must be given. For 1 Date of Publication of This Edition: Give the complete date or publicly distributed. The date when copies were made or further information, see page 4. arize only on or after date given above before me this NOTE: Leave line 5 blank unless the following instructions apply to this work.) time in this version. New matter may consist of compilation, translation, abridgment, editorial revision, and the like, as well New Motter in This Version: If any substantial part of this as additional text or pictorial matter. Compilation of previously published texts and additional text the has been previously published anywhere, give a brief, general mement of the nature of the new matter published for the first NOTE: Leave line 6 blank unless there has been a PREVIOUS FOREIGN EDITION in the English language.

While the text of this edition was look in English Previously Manufactured and Published Abroad: If all or a substantial part of the text of this edition was manufactured and published abroad: Complete the following spaces: heriously manufactured and published abroad in the English language, complete the following spaces: Was registration for the foreign edition made in the U.S. Copyright Office? Yes No EXAMINER at first publication of foreign edition -----"Swer is "Yes," give registration number -----Complete all applicable spaces on next page

	Case 1:13-cv-012	15-TSC Document	498+7 cFiled 10/07	7/19 Page 49 of	Make ou and rive of puk
7. If registration	n fee is to be charged to	15-TSC DOCUMENT	nce or refund if	give name of account	Make sure which are which with the published hook manual as a sure which are published by 100 and the published by 100 and 1
	f remon or organiz	sation to whom corresponde sting and Materials	1916 Race St	d be sent:	additioned to that the st
America	n Society for Tes	setion to whom corresponde sting and Materials Address		Phila., Pa. lo.	all distance of the ATI
9. Send certific	ate to:		d Watani 1	- 13103	sols fore NOTARIE of sister
	A smican Soci	ety for Testing an	d Materials		of the Dat ANGE the which
(Type or print Name					significant of fact 4.
name and	1916 Race Str	eet (Number and street)			dell sale see Productice of
address) Address	Phila., Pa. 1	9103 (State)	(ZIP code)		and strict
10. Certificati	On: (NOTE: Application Y that the statements made by	not acceptable unless signed) when in this application are corr		dge.	American confish same as in the notice of addition to the same as in 1916 Race 1916 Race
NOTE: The at The affidavit must be STATE OF	an officer authorized to adm and fill in the date of execut fidavit must be signed and ne signed by an individual. Pennsylvania Philadelphia published or the printing we	I, the u Per app XX Du cop Pri	date of publication or completed states, such as a notary publication or complete son claiming copyright is discation; ly authorized agent of the syright in the book described in the book described in March 1972 (Give month)	public. (3) Have the officer sign letion of printing which it states, that I am the n the book described in this person or organization claiming and in this application; n this application.	Automotiv Astm Spece Astm Spece Astm Spece Astm Spece Astm Spece Astm Spece Citizenship and delighter a work was made for his or organizations for organizations for organizations for the should be stated as U.S.A. American Name (Give legal or organizations)
and that the printing setting, platemaking, individuals at the foll (GIVE THE NAME OF PLATEMAKING	lithographic or photoengrowing addresses: AND ADDRESSES OF OR LITHOGRAPHIC PR	sed in producing the text we ng (if any) were also perfor aving process, printing, and THE PERSONS OR ORGAROCESS OR PHOTOENGR. Inc. Address	binding were performed by ANIZATIONS WHO PER AVING PROCESS OR PR	y the following establishments or FORMED SUCH TYPESETTING RINTING AND BINDING, ETC.)	Name (Give legal
PLAC NOTARIAL HERE	E SEAL	Subscribed an May of	and notarize only on or o	ofter date given above)	Dumiciled in U.S.A. Yes
to the state of	sion, blow martee, mis-	//	(al (Signature bit.	notatydelphia, Philadelphia Co.	New Matter in Thi work has been previousl statement of the nature
Applicati	Land to the land	FOR COPYRIGHT OFFICE	USE ONLY My Commissi	on Expires January 20, 1975	nature
Application and affida	vit received	sykan bangitand	Arenerand was		1
MAR 16 1972					-
Two copies received	and talk to be a second				NOTE: Lec
MAD	S. C. S. M. C. M. LILLYS A.				6. Book in English
MAR 16 1972	and to man telephones of				previously manufactu
133220	MAR16'72				Date of first publica
Renewal	as de t				
The state of the s				P	lf your answer is
* U.S. GOVERNMENT PRINTING	OFFICE : 1970 0—380-972	Photographic and the second of	mand to the state of		