

EXHIBIT 82

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 2-992-651

October 2, 2019

A handwritten signature in black ink, reading 'Kay A. Tesler'.

United States Register of Copyrights and Director

FORM SE
UNITED STATES COPYRIGHT OFFICE
REGISTRATION NUMBER

TX 2-992-651

EFFECTIVE DATE OF REGISTRATION
FEB 04 1991
Month Day Year

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

1

TITLE OF THIS SERIAL ▼
1990 Annual Book of ASTM Standards: *Caseous Fuels; Coal + Coke*

Volume ▼ **Number** ▼ **Date on Copies** ▼ **Frequency of Publication** ▼
05 05.05 October 1990 Annual

PREVIOUS OR ALTERNATIVE TITLES ▼

2

a

NAME OF AUTHOR ▼ American Society for Testing and Materials

DATES OF BIRTH AND DEATH
Year Born ▼ 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 P. _____ Domiciled in P. United States

WAS THIS AUTHOR'S CONTRIBUTION TO THE WORK
Anonymized? Yes No
Pseudonymized? Yes No

NATURE OF AUTHORSHIP *Briefly describe nature of the material covered by this author in which copyright is claimed.* ▼
 Collective Work Other

NOTE
Under the law

b

NAME OF AUTHOR ▼

DATES OF BIRTH AND DEATH
Year Born ▼ 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 P. _____ Domiciled in P. _____

WAS THIS AUTHOR'S CONTRIBUTION TO THE WORK
Anonymized? Yes No
Pseudonymized? Yes No

NATURE OF AUTHORSHIP *Briefly describe nature of the material covered by this author in which copyright is claimed.* ▼
 Collective Work Other

3

NAME OF AUTHOR ▼

DATES OF BIRTH AND DEATH
Year Born ▼ 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 P. _____ Domiciled in P. _____

WAS THIS AUTHOR'S CONTRIBUTION TO THE WORK
Anonymized? Yes No
Pseudonymized? Yes No

NATURE OF AUTHORSHIP *Briefly describe nature of the material covered by this author in which copyright is claimed.* ▼
 Collective Work Other

4

YEAR IN WHICH CREATION OF THIS WORK WAS COMPLETED
1990

DATE AND NATION OF FIRST PUBLICATION OF THIS PARTICULAR ISSUE
Month: _____ Day: _____ Year: _____
N. S. A.

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
Philadelphia, PA 19103

APPLICATOR RECEIVED
FEB 21 1991
FEB 2 1991
REGISTRATION NUMBER AND DATE

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.

EXHIBIT 83

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 2-201-054

October 2, 2019

A handwritten signature in blue ink, reading "Kay A. Tesler". The signature is fluid and cursive.

United States Register of Copyrights and Director

FORM SE
UNITED STATES COPYRIGHT OFFICE

REGISTRATION NUMBER

TX **2-201-054**

EFFECTIVE DATE OF REGISTRATION

10 26 87
Month Day Year

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

TITLE OF THIS SERIAL

1

1987 Annual Book of ASTM Standards, Gaseous Fuels; Coal & Coke

Volume	Number	Date on Copies	Frequency of Publication
05.05	05	October 1987	Annual

PREVIOUS OR ALTERNATIVE TITLES

2

NAME OF AUTHOR
American Society for Testing and Materials

DATES OF BIRTH AND DEATH
Year Born 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 United States
Domiciled in United States

WAS THIS AUTHOR'S CONTRIBUTION TO THE WORK
Anonymous? Yes No
Pseudonymous? Yes No
If the answer to either of those questions is "Yes," see detailed instructions

NATURE OF AUTHORSHIP Briefly describe nature of the material created by this author in which copyright is claimed.
 Collective Work Other: Entire Text

NOTE
Under the law, the "author" of a "work made for hire" is generally the employer.

NAME OF AUTHOR

DATES OF BIRTH AND DEATH
Year Born 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

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

NATURE OF AUTHORSHIP Briefly describe nature of the material created by this author in which copyright is claimed.
 Collective Work Other:

NAME OF AUTHOR

DATES OF BIRTH AND DEATH
Year Born 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

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

NATURE OF AUTHORSHIP Briefly describe nature of the material created by this author in which copyright is claimed.
 Collective Work Other:



3

YEAR IN WHICH CREATION OF THIS ISSUE WAS COMPLETED This information must be given in all cases.
1987

DATE AND NATION OF FIRST PUBLICATION OF THIS PARTICULAR ISSUE Complete this information ONLY if this work has been published.
Month: October Day: _____ Year: 1987
U S A

4

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 and Materials
1916 Race Street
Philadelphia, PA 19103

APPLICATION RECEIVED
OCT. 27 1987
ONE DEPOSIT RECEIVED
TWO DEPOSITS RECEIVED
OCT. 16 1987
REMITTANCE NUMBER AND DATE

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

EXAMINED BY

FORM SE

CHECKED BY

CORRESPONDENCE
Yes

FOR
COPYRIGHT
OFFICE
USE
ONLY

DEPOSIT ACCOUNT
FUNDS USED

IX 2-201-054

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.

5

If your answer is "Yes," give: Previous Registration Number ▼

Year of Registration ▼

DERIVATIVE WORK OR COMPILATION Complete both space 6a & 6b for a derivative work; complete only 6b for a compilation.

a. **Preexisting Material** Identify any preexisting work or works that this work is based on or incorporates. ▼

1995 Annual Book of ASTM Standards Section 05 Volume 05.05

6

b. **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 previous published text plus additional text.

See instructions
before completing
this space

MANUFACTURERS AND LOCATIONS If this is a published work consisting preponderantly of nondramatic literary material in English, the law may 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 Manufacturers ▼

Places of Manufacture ▼

Maverly Press, Inc.

Easton, MD

7

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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

Copies Only

Phonorecords Only

See instructions

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.

CORRESPONDENCE Give name and address to which correspondence about this application should be sent. Name/Address/Adj/City/State/Zip ▼

R. L. Meltzer, ASTM

1915 Race Street

Philadelphia, PA 19103

Area Code & Telephone Number ▼

215-299-5431

Be sure to
give your
daytime phone
number

CERTIFICATION I, the undersigned, hereby certify that I am the

Check one ▼

author

other copyright claimant

owner of exclusive right(s)

authorized agent of

American Society for

Testing and Materials

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

Typed or printed name and date ▼ If this is a published work, this date must be the same as or later than the date of publication given in space 3

Robert L. Meltzer

date of 0/16/87

10

MAIL CERTIFICATE TO

Certificates will be mailed in window envelope

Name ▼
Kathe Schell, ASTM

Number/Street/Resident Number ▼
1915 Race Street

City/State/Zip ▼
Philadelphia PA 19103

Have you:

- Completed all necessary spaces?
 - Signed your application in space 10?
 - Enclosed check or money order for \$10 payable to Register of Copyrights?
 - Enclosed your deposit material with the application and fee?
- MAIL TO: Register of Copyrights, Library of Congress, Washington, D.C. 20540

11

* U.S.C. § 506: Any person who knowingly makes a false reproduction of a national 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.

EXHIBIT 84

FORM SE
For a Serial
UNITED STATES COPYRIGHT OFFICE
REGISTRATION NUMBER

TX 4-129-091
TX/004929091

10706983



EFFECTIVE DATE OF REGISTRATION

6 / 1 / 99
Month Day Year

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

1 TITLE OF THIS SERIAL ▼

1999 Annual Book of ASTM Standards, Water (II)

Volume ▼	Number	Date on Copies ▼	Frequency of Publication ▼
11.02	11	May 1999	Annual

PREVIOUS OR ALTERNATIVE TITLES ▼

2 NAME OF AUTHOR ▼

a American Society for Testing and Materials

DATES OF BIRTH AND DEATH
Year Born ▼ 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

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.

NATURE OF AUTHORSHIP Briefly describe nature of the material created by this author in which copyright is claimed. ▼

Collective Work Other: Entire Text

NAME OF AUTHOR ▼

DATES OF BIRTH AND DEATH
Year Born ▼ 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 ►

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.

NATURE OF AUTHORSHIP Briefly describe nature of the material created by this author in which copyright is claimed. ▼

Collective Work Other:

NAME OF AUTHOR ▼

DATES OF BIRTH AND DEATH
Year Born ▼ 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 ►

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.

NATURE OF AUTHORSHIP Briefly describe nature of the material created by this author in which copyright is claimed. ▼

Collective Work Other:

3 YEAR IN WHICH CREATION OF THIS ISSUE WAS COMPLETED

1999 Year

This information must be given in all cases.

4 DATE AND NATION OF FIRST PUBLICATION OF THIS PARTICULAR ISSUE

Complete this information ONLY if this work has been published. Month ► May Day ► 12 Year ► 1999 United States Nation

4 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 and 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.

DO NOT WRITE HERE OFFICE USE ONLY
APPLICATION RECEIVED JUN 01 1999
ONE DEPOSIT RECEIVED
TWO DEPOSITS RECEIVED JUN 01 1999
REMITTANCE NUMBER AND DATE

NOTE

Under the law, the "author" of a work made for hire is generally the employer, or the employee (see instructions). For any part of this work that was made for hire, check "Yes" in the space provided, give the employer (or her person for whom the work is prepared) the "Author" of the part, and give the space for dates of birth and death blank.

CHECKED BY

Comes
CORRESPONDENCE
Yes

FOR
COPYRIGHT
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USE
ONLY

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 Year of Registration ▼

5

DERIVATIVE WORK OR COMPILATION Complete both space 6a & 6b for a derivative work; complete only 6b for a compilation.

a. Preexisting Material Identify any preexisting work or works that this work is based on or incorporates. ▼

1998 Annual Book of ASTM Standards, Section 11, Volume 11.02

b. 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 previous published text plus additional text.

See instructions before completing this space.

6

---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.

- a. Copies and Phonorecords
- b. Copies Only
- c. Phonorecords Only

See instructions.

7

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

American Society for Testing and Materials

DA078328

9

CORRESPONDENCE Give name and address to which correspondence about this application should be sent.

Name/Address/Apt/City/State/ZIP ▼

Kathe Hooper, American Society for Testing and Materials
100 Barr Harbor Drive
West Conshohocken, PA 19428-2959

Area Code & Telephone Number ▶ (610) 832-9634

Be sure to give your daytime phone number.

CERTIFICATION* I, the undersigned, hereby certify that I am the

- Check only one ▶
- author
 - other copyright claimant
 - owner of exclusive right(s)
 - authorized agent of American Society for Testing & 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.

Name of author or other copyright claimant, or owner of exclusive right(s) ▲

Typed or printed name and date ▼ If this application gives a date of publication in space 3, do not sign and submit it before that date.

Robert L. Meltzer

date ▶ 5-24-99

10

Handwritten signature (S) ▼
Robert L. Meltzer

MAIL CERTIFICATE TO

Name	Kathe Hooper, ASTM
Number/Street/Apartment Number ▼	100 Barr Harbor Drive
City/State/ZIP ▼	West Conshohocken, PA 19428-2959

Certificate will be mailed in window envelope

FOR FIRST

- Complete all necessary spaces
- Sign your application in space 10

SEND BY TELEPHONE

IN THE 2-12 PACKAGE

1. Application form
2. Nonrefundable \$20 filing fee in check or money order payable to Register of Copyrights
3. Deposit material

MAIL TO

Register of Copyrights
Library of Congress
Washington, D.C. 20559

The Copyright Office has the authority to adjust fees at 5-year intervals, based on changes in the Consumer Price Index. The next adjustment is due in 1999. Please contact the Copyright Office after July 1995 to determine the actual fee schedule.

11

EXHIBIT 85

NY 3 450 603

RECEIVED
JAN 12 1993

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

1
TITLE OF THIS SERIAL

1992 Annual Book of ASTM Standards: Petroleum Products and Lubricants
(I); D 1949 - D 3601

Volume # Number # Date of Copyright # Frequency of Publication #

03 03 March Annual

PREVIOUS OR ALTERNATIVE TITLES

2
NAME OF AUTHOR

American Society for Testing and Materials

DATE OF BIRTH AND DEATH
Year Month Year

Was the contribution to the work a "work made for hire"?

Yes
 No

AUTHOR'S NATIONALITY OR DOMICILE

Citizen of U.S.
Resided in U.S. United States

WAS THIS AUTHOR'S CONTRIBUTION TO THE WORK

Anonymous? Yes No
Pseudonymous? Yes No

NATURE OF AUTHORSHIP Briefly describe nature of the material created by the author in which copyright is claimed

Collective Work Other Entire Text

NAME OF AUTHOR

DATE OF BIRTH AND DEATH
Year Month Year

Was the contribution to the work a "work made for hire"?

Yes
 No

AUTHOR'S NATIONALITY OR DOMICILE

Citizen of U.S.
Resided in U.S.

WAS THIS AUTHOR'S CONTRIBUTION TO THE WORK

Anonymous? Yes No
Pseudonymous? Yes No

NATURE OF AUTHORSHIP Briefly describe nature of the material created by the author in which copyright is claimed

Collective Work Other

NAME OF AUTHOR

DATE OF BIRTH AND DEATH
Year Month Year

Was the contribution to the work a "work made for hire"?

Yes
 No

AUTHOR'S NATIONALITY OR DOMICILE

Citizen of U.S.
Resided in U.S.

WAS THIS AUTHOR'S CONTRIBUTION TO THE WORK

Anonymous? Yes No
Pseudonymous? Yes No

NATURE OF AUTHORSHIP Briefly describe nature of the material created by the author in which copyright is claimed

Collective Work Other

3
4
YEAR IN WHICH CREATION OF THIS ISSUE WAS COMPLETED

1992

DATE AND NATION OF FIRST PUBLICATION OF THIS PARTICULAR ISSUE

March 23 1992
U.S.A.

4
COPYRIGHT CLAIMANT'S name and address must be given from if the claimant is the same as the author given in space 1

American Society for Testing & Materials
1916 Race Street
Philadelphia, PA 19103-1187

APPLICATION RECEIVED
JAN 12 1993
OFF DEPOSIT RECEIVED

RECEIVED
JAN 12 1993
COURTESY OF THE AUTHOR

TRANSFER If the claimant's name here is space 4 is different from the author's named in space 1, give a brief statement of how the claimant obtained ownership of the copyright

5
MORE ON BACK

1. Complete all applicable Special Notices 2. Sign the entire back of the copy 3. Use correct measurements 4. Sign the top of the ID

DO NOT WRITE ABOVE THIS LINE

Handwritten signature

TX 3 450 603

REGISTERED
 UNREGISTERED
 DERIVATIVE WORK OR COMPILATION
 REPRODUCTION FOR USE OF BLIND OR PHYSICALLY HANDICAPPED INDIVIDUALS

FORM
 FOR
 COPYRIGHT
 OFFICE
 USE ONLY

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

PREVIOUS REGISTRATION Has registration of this work of art or other subject of this particular work already been made at the Copyright Office?

- Yes No
- This is the same published version of an issue previously registered or unpublished work
- This is the first application submitted for this work as copyrightable material
- This is a changed version of this work as shown by space 7 on this application

If work entered as "Yes," give **Previous Registration Number** **Year of Registration**
 TX 3 015-160 1991

DERIVATIVE WORK OR COMPILATION Complete both space 6 and 7 for a derivative work, complete only the 6 for a contribution

a. **Previous Material** Identify any preexisting work or works that this work is based on or comprises:
 1991 Annual Book of ASTM Standards, Section 05, Volume 02.

b. **Material Added to This Work** Give a brief general description of the material that has been added to this work and its relationship to the material in space 6:
 Compilation of previous published text plus additional text.

—space deleted—

REPRODUCTION FOR USE OF BLIND OR PHYSICALLY HANDICAPPED INDIVIDUALS A registration of this work in space 6 and a check in one of the boxes here in space 7 constitute the fulfillment of a part of the requirements of the Copyright Act. Complete in duplicate and distribute copies for the blind and physically handicapped and submit the originals and reproducible proofs to the Department of the Copyright Office. Complete the work identified in space 6 of this application or provide an internet website or other electronic distribution system of a reading of this work in CD form.

- Copies and Proofs
- Copies Only
- Proofs Only

DEPOSIT ACCOUNT If the registration fee is to be charged to a Deposit Account registered at the Copyright Office, give name and number of Deposit Account:

CLAIMANT Give name and address to which correspondence about this application should be sent. (Name address for the Copyright Office)
 Robert L. Meltzer, ASTM
 1916 Race Street
 Philadelphia, PA 19103-1187
 (Area Code & Telephone Number) 215-269-5431

CERTIFICATION I, the undersigned, hereby certify that I am

Check one

- author
- other copyright owner
- owner of exclusive rights
- authorized agent of **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.

Signed in printed name and date of this application given a date of publication in space 1, do not sign and submit a form that date.

Robert L. Meltzer

and December 23, 1991



Residence signature

Robert L. Meltzer

MAIL CENTER CALL TO

Name: **Kathe Hooper, ASTM**
 Address: **1916 Race Street**
Philadelphia, PA 19103-1187

Certificates will be mailed in envelope enclosures

1. Complete in duplicate, original and copy, and submit to space 6.
 2. Submission only.
 3. Proofs must be submitted with original work in a form of hard copy and proofs in duplicate of 2 copies.
 4. Copies must be submitted to the Copyright Office, Department of Copyright, Library of Congress, Washington, D.C. 20540.

EXHIBIT 86



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.

Marybeth Peters

REGISTER OF COPYRIGHTS United States of America

REGISTRATION NUMBER

TX 4-893-151

EFFECTIVE DATE OF REGISTRATION

Month 4 Day 29 Year 99

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

TITLE OF THIS SERIAL

1 1999 Annual Book of ASTM Standards: Soil and Rock (I): D 420- D 4915

Table with columns: Volume, Number, Date on Copies, Frequency of Publication. Values: 04.08, 04, March 1999, Annual

PREVIOUS OR ALTERNATIVE TITLES

2 a NAME OF AUTHOR American Society for Testing and Materials

DATES OF BIRTH AND DEATH Year Born Year Died

Was this contribution to the work a "work made for hire"? AUTHOR'S NATIONALITY OR DOMICILE WAS THIS AUTHOR'S CONTRIBUTION TO THE WORK

NOTE

Under the law, the "author" of a "work made for hire" is generally the employer, not the employee...

NATURE OF AUTHORSHIP Briefly describe nature of the material created by this author in which copyright is claimed.

3 a NAME OF AUTHOR DATES OF BIRTH AND DEATH

Was this contribution to the work a "work made for hire"? AUTHOR'S NATIONALITY OR DOMICILE WAS THIS AUTHOR'S CONTRIBUTION TO THE WORK

NATURE OF AUTHORSHIP Briefly describe nature of the material created by this author in which copyright is claimed.

3 b NAME OF AUTHOR DATES OF BIRTH AND DEATH

Was this contribution to the work a "work made for hire"? AUTHOR'S NATIONALITY OR DOMICILE WAS THIS AUTHOR'S CONTRIBUTION TO THE WORK

NATURE OF AUTHORSHIP Briefly describe nature of the material created by this author in which copyright is claimed.

4 a YEAR IN WHICH CREATION OF THIS ISSUE WAS COMPLETED DATE AND NATION OF FIRST PUBLICATION OF THIS PARTICULAR ISSUE

4 b 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 and 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.

APPLICATION RECEIVED APR 29 1999 ONE DEPOSIT RECEIVED TWO DEPOSITS RECEIVED APR 29 1999 REMITTANCE NUMBER AND DATE

EXAMINED BY dh
CHECKED BY AWD

CORRESPONDENCE
Yes

FOR
COPYRIGHT
OFFICE
USE
ONLY

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 Year of Registration ▼

5

DERIVATIVE WORK OR COMPILATION Complete both space 6a & 6b for a derivative work; complete only 6b for a compilation.

a. **Preexisting Material** Identify any preexisting work or works that this work is based on or incorporates. ▼
1998 Annual Book of ASTM Standards, Section 04, Volume 04.08

6

b. **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 previous published text plus additional text.

See instructions before completing this space.

---space deleted---

7

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.

a. Copies and Phonorecords b. Copies Only c. Phonorecords Only

See instructions.

8

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

American Society for Testing and Materials DA078328

9

CORRESPONDENCE Give name and address to which correspondence about this application should be sent. Name/Address/Apt/City/State/ZIP

Kathe Hooper, American Society for Testing and Materials
100 Barr Harbor Drive
West Conshohocken, PA 19428-2959

Area Code & Telephone Number ▶ (610) 832-9634

Be sure to give your daytime phone number.

CERTIFICATION* I, the undersigned, hereby certify that I am the

Check only one ▶ author
 other copyright claimant
 owner of exclusive right(s)
 authorized agent of American Society for Testing & Materials
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.

10

Typed or printed name and date ▼ If this application gives a date of publication in space 3, do not sign and submit it before that date.

Robert L. Meltzer date ▶ 4-8-99

Handwritten signature (X) ▼ Robert L. Meltzer

MAIL CERTIFICATE TO

Name ▼ Kathe Hooper, ASTM
Number/Street/Apartment Number ▼ 100 Barr Harbor Drive
City/State/ZIP West Conshohocken, PA 19428-2959

Certificate will be mailed in window envelope

YOU MUST
• Complete all necessary spaces
• Sign your application in space 10
SEND ALL ELEMENTS IN THE SAME PACKAGE
1. Application form
2. Nonrefundable \$20 filing fee in check or money order payable to Register of Copyrights
3. Deposit material
MAIL TO
Register of Copyrights
Library of Congress
Washington, D.C. 20559

The Copyright Office has the authority to adjust fees at 5-year intervals, based on changes in the Consumer Price Index. The next adjustment is due in 1998. Please contact the Copyright Office after July 1995 to determine the actual fee schedule.

11

EXHIBIT 87

CERTIFICATE OF REGISTRATION

FORM SE

For a Serial
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.

Marybeth Peters
REGISTER OF COPYRIGHTS
United States of America

TX 4-951-524

EFFECTIVE DATE OF REGISTRATION

AUG - 9 1999

Month Day Year

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

1 TITLE OF THIS SERIAL ▼

1999 Annual Book of ASTM Standards - Gaseous Fuels; Coal and Coke

Volume ▼	Number	Date on Copies ▼	Frequency of Publication ▼
05.05	05	September 1999	Annual

PREVIOUS OR ALTERNATIVE TITLES ▼

2 a NAME OF AUTHOR ▼

American Society for Testing and Materials

DATES OF BIRTH AND DEATH ▼

Year Born Year Died

Was this contribution to the work a "work made for hire"? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	AUTHOR'S NATIONALITY OR DOMICILE Name of Country OR { Citizen of ► Domiciled in ► <u>United States</u>	WAS THIS AUTHOR'S CONTRIBUTION TO THE WORK Anonymous? <input type="checkbox"/> Yes <input type="checkbox"/> No Pseudonymous? <input type="checkbox"/> Yes <input type="checkbox"/> No <small>If the answer to either of these questions is "Yes," see detailed instructions.</small>
---	--	--

NATURE OF AUTHORSHIP Briefly describe nature of the material created by this author in which copyright is claimed. ▼

Collective Work Other: Entire Text

NAME OF AUTHOR ▼

DATES OF BIRTH AND DEATH ▼

Year Born Year Died

Was this contribution to the work a "work made for hire"? <input type="checkbox"/> Yes <input type="checkbox"/> No	AUTHOR'S NATIONALITY OR DOMICILE Name of Country OR { Citizen of ► Domiciled in ►	WAS THIS AUTHOR'S CONTRIBUTION TO THE WORK Anonymous? <input type="checkbox"/> Yes <input type="checkbox"/> No Pseudonymous? <input type="checkbox"/> Yes <input type="checkbox"/> No <small>If the answer to either of these questions is "Yes," see detailed instructions.</small>
--	---	--

NATURE OF AUTHORSHIP Briefly describe nature of the material created by this author in which copyright is claimed. ▼

Collective Work Other:

NAME OF AUTHOR ▼

DATES OF BIRTH AND DEATH ▼

Year Born Year Died

Was this contribution to the work a "work made for hire"? <input type="checkbox"/> Yes <input type="checkbox"/> No	AUTHOR'S NATIONALITY OR DOMICILE Name of Country OR { Citizen of ► Domiciled in ►	WAS THIS AUTHOR'S CONTRIBUTION TO THE WORK Anonymous? <input type="checkbox"/> Yes <input type="checkbox"/> No Pseudonymous? <input type="checkbox"/> Yes <input type="checkbox"/> No <small>If the answer to either of these questions is "Yes," see detailed instructions.</small>
--	---	--

NATURE OF AUTHORSHIP Briefly describe nature of the material created by this author in which copyright is claimed. ▼

Collective Work Other:

3 a YEAR IN WHICH CREATION OF THIS ISSUE WAS COMPLETED

1999 Year

b DATE AND NATION OF FIRST PUBLICATION OF THIS PARTICULAR ISSUE

Complete this information ONLY if this work has been published. Month ► August Day ► 3 Year ► 1999
United States ◀ Nation

4 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 and 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.

DO NOT WRITE HERE OFFICE USE ONLY

COPYRIGHT CLAIMANT(S)	APPLICATION RECEIVED
	AUG 09 1999
	ONE DEPOSIT RECEIVED
	TWO DEPOSITS RECEIVED
	AUG 09 1999
	REMITTANCE 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
Page 1 of _____ pages

NOTE

Under the law, the "author" of a "work made for hire" is generally the employer, not the employee (see instructions). For any part of this work that was "made for hire" check "Yes" in the space provided, give the employer (or other person for whom the work was prepared) as "Author" of that part, and leave the space for dates of birth and death blank.

EXAMINED BY *[Signature]*

FORM SE

CHECKED BY *[Signature]*

CORRESPONDENCE
Yes

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COPYRIGHT
OFFICE
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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 ▼ Year of Registration ▼

5

DERIVATIVE WORK OR COMPILATION Complete both space 6a & 6b for a derivative work; complete only 6b for a compilation.

a. **Preexisting Material** Identify any preexisting work or works that this work is based on or incorporates. ▼
1998 Annual Book of ASTM Standards, Section 05, Volume 05.05

b. **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 previous published text plus additional text.

See instructions before completing this space.

6

---space deleted---

7

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.

- a. Copies and Phonorecords
- b. Copies Only
- c. Phonorecords Only

See instructions.

8

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

American Society for Testing and Materials DA078328

9

CORRESPONDENCE Give name and address to which correspondence about this application should be sent. Name/Address/Apt/City/State/ZIP ▼

Kathe Hooper, American Society for Testing and Materials
100 Barr Harbor Drive
West Conshohocken, PA 19428-2959

Area Code & Telephone Number ▶ (610) 832-9634

Be sure to give your daytime phone number.

CERTIFICATION* I, the undersigned, hereby certify that I am the
Check only one ▶ author
 other copyright claimant
 owner of exclusive right(s)
 authorized agent of American Society for Testing & 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. Name of author or other copyright claimant, or owner of exclusive right(s) ▲

10

Typed or printed name and date ▼ If this application gives a date of publication in space 3, do not sign and submit it before that date.
Robert L. Meltzer date ▶ 8-3-99

Handwritten signature (X) *Robert L. Meltzer*

MAIL
CERTIFICATE
TO

Name	Kathe Hooper, ASTM
Number/Street/Apartment Number ▼	100 Barr Harbor Drive
City/State/ZIP ▼	West Conshohocken, PA 19428-2959

Certificate will be mailed in window envelope

YOU MUST

- Complete all necessary spaces
- Sign your application in space 10

SEND ALL 3 ELEMENTS IN THE SAME PACKAGE

1. Application form
2. Nonrefundable \$20 filing fee in check or money order payable to Register of Copyrights
3. Deposit material

MAIL TO

Register of Copyrights
Library of Congress
Washington, D.C. 20559

The Copyright Office has the authority to adjust fees at 3-year intervals, based on changes in the Consumer Price Index. The next adjustment is due in 1996. Please contact the Copyright Office after July 1995 to determine the actual fee schedule.

11

*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.

EXHIBIT 88

100714536

FORM SE For a Serial UNITED STATES COPYRIGHT OFFICE



EFFECTIVE DATE OF REGISTRATION

MAY 22 1998

Month Day Year

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

TITLE OF THIS SERIAL

1

1998 Annual Book of ASTM Standards, Water (II)

Volume ▼	Number ▼	Date on Copies	Frequency of Publication ▼
11.02	11	May 1998	Annual

PREVIOUS OR ALTERNATIVE TITLES ▼

2

NAME OF AUTHOR ▼

a American Society for Testing and Materials

DATES OF BIRTH AND DEATH
Year Born ▼ 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

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.

NATURE OF AUTHORSHIP Briefly describe nature of the material created by this author in which copyright is claimed. ▼

Collective Work Other: Entire Text

NAME OF AUTHOR ▼

DATES OF BIRTH AND DEATH
Year Born ▼ 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 ►

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.

NATURE OF AUTHORSHIP Briefly describe nature of the material created by this author in which copyright is claimed. ▼

Collective Work Other:

NAME OF AUTHOR ▼

DATES OF BIRTH AND DEATH
Year Born ▼ 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 ►

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.

NATURE OF AUTHORSHIP Briefly describe nature of the material created by this author in which copyright is claimed. ▼

Collective Work Other:

3

YEAR IN WHICH CREATION OF THIS ISSUE WAS COMPLETED
1998 Year
This information must be given in all cases.

DATE AND NATION OF FIRST PUBLICATION OF THIS PARTICULAR ISSUE
Complete this information ONLY if this work has been published.
Month ► May Day ► 1 Year ► 1998
United States

4

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 and 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.

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APPLICATION RECEIVED
MAY 22 1998

ONE DEPOSIT RECEIVED

TWO DEPOSITS RECEIVED
MAY 22 1998

REMITTANCE NUMBER AND DATE

See instructions before completing this space.

CHECKED BY

CORRESPONDENCE
Yes

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COPYRIGHT
OFFICE
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ONLY

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 ▼ Year of Registration

5

DERIVATIVE WORK OR COMPILATION Complete both space 6a & 6b for a derivative work; complete only 6b for a compilation.

a. Preexisting Material Identify any preexisting work or works that this work is based on or incorporates. ▼
1997 Annual Book of ASTM Standards, Section 11, Volume 11.02.

6

b. 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. ▼
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See instructions before completing this space.

---space deleted---

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- b. Copies Only
- c. Phonorecords Only

See instructions.

8

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 ▼

American Society for Testing and Materials

DA078328

9

CORRESPONDENCE Give name and address to which correspondence about this application should be sent.

Name/Address/Apt/City/State/ZIP ▼

Kathe Hooper, American Society for Testing and Materials
100 Barr Harbor Drive
West Conshohocken, PA 19428-2959

Area Code & Telephone Number ▶ (610) 832-9634

Be sure to give your daytime phone number.

CERTIFICATION* I, the undersigned, hereby certify that I am the

- Check only one ▶
- author
 - other copyright claimant
 - owner of exclusive right(s)
 - authorized agent of American Society for Testing & 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.

Name of author or other copyright claimant, or owner of exclusive right(s) ▲

Typed or printed name and date ▼ If this application gives a date of publication in space 3, do not sign and submit it before that date.

Robert L. Meltzer

date ▶ 5-11-98

10

Handwritten signature (X) ▼
Robert L. Meltzer

MAIL
CERTIFICATE
TO

Name ▼ Kathe Hooper, ASTM
Number/Street/Apartment Number 100 Barr Harbor Drive
City/State/ZIP ▼ West Conshohocken, PA 19428-2959

Certificate will be mailed in window envelope

• Complete all necessary spaces
• Sign your application in space 10

- Application form
- Nonrefundable \$20 filing fee in check or money order payable to Register of Copyrights
- Deposit material

Register of Copyrights
Library of Congress
Washington, D.C. 20559

11

The Copyright Office has the authority to adjust fees at 5-year intervals, based on changes in the Consumer Price Index. The next adjustment is due in 1994. Please contact the Copyright Office after July 1990 to determine the actual fee schedule.

EXHIBIT 89

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 3-512-412

October 1, 2019

A handwritten signature in blue ink, reading "Kay A. Leahy".

United States Register of Copyrights and Director

FORM SE
UNITED STATES COPYRIGHT OFFICE

REGISTRATION NUMBER

TX 3 512-412

EFFECTIVE DATE OF REGISTRATION

4 Month 13 Day 93 Year

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

1 TITLE OF THIS SERIAL
1993 Annual Book of ASTM Standards: Petroleum Products, Lubricants,
and Special Fuels: Petroleum Products and Lubricants (1): D56-D2596

Volume 05 Number 01 Date on Copies FEBRUARY 1993 Frequency of Publication Annual

PREVIOUS OR ALTERNATIVE TITLES

2 NAME OF AUTHOR
American Society for Testing and Materials

DATES OF BIRTH AND DEATH
Year Born 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 United States
Domiciled in

WAS THIS AUTHOR'S CONTRIBUTION TO THE WORK
Anonymous? Yes No
Pseudonymous? Yes No

NATURE OF AUTHORSHIP Briefly describe nature of the material created by this author in which copyright is claimed.
 Collective Work Other: Entire Text

NAME OF AUTHOR

DATES OF BIRTH AND DEATH
Year Born 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

WAS THIS AUTHOR'S CONTRIBUTION TO THE WORK
Anonymous? Yes No
Pseudonymous? Yes No

NATURE OF AUTHORSHIP Briefly describe nature of the material created by this author in which copyright is claimed.
 Collective Work Other:

NAME OF AUTHOR

DATES OF BIRTH AND DEATH
Year Born 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

WAS THIS AUTHOR'S CONTRIBUTION TO THE WORK
Anonymous? Yes No
Pseudonymous? Yes No

NATURE OF AUTHORSHIP Briefly describe nature of the material created by this author in which copyright is claimed.
 Collective Work Other:

3 a YEAR IN WHICH CREATION OF THIS ISSUE WAS COMPLETED
1993

b DATE AND NATION OF FIRST PUBLICATION OF THIS PARTICULAR ISSUE
Month 2 Day 16 Year 93 U.S.A.

4 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
Philadelphia, PA 19103-1187

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.

APPLICATION RECEIVED
APR 13 1993
ONE DEPOSIT RECEIVED

TWO DEPOSITS RECEIVED
APR 13 1993

REGISTRATION NUMBER AND DATE

TX 3 512-412

EXAMINED BY

FORM SE

CHECKED BY

CORRESPONDENCE

Yes

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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) V

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 V

TX 3 450 572

1992

DERIVATIVE WORK OR COMPILATION Complete both space 6a & 6b for a derivative work; complete only 6b for a compilation.

a. Preexisting Material Identify any preexisting work or works that this work is based on or incorporates V

1992 Annual Book of ASTM Standards, Section 15, Volume 01.

b. 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 V

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—space deleted—

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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 V Account Number V

CORRESPONDENCE Give name and address to which correspondence about this application should be sent. Name/Address/Apt./City/State/Zip V

Robert L. Meltzer, ASTM

1916 Race Street

Philadelphia, PA 19103-1187

Area Code & Telephone Number V 215-299-5431

CERTIFICATION I, the undersigned, hereby certify that I am the

Check one V

author

other copyright claimant

owner of exclusive rights

authorized agent of American Society for Testing and Materials

Name of author or other copyright claimant, or owner of exclusive rights, as

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.

Type I or printed name and date V If this application gives a date of publication in space 3, do not sign and return it before that date.

Robert L. Meltzer

3/12/93

Handwritten signature of Robert L. Meltzer

MAIL CERTIFICATE TO

Form with fields for Name (Kathe Hooper, ASTM), Number/Street/Apartment Number (1916 Race Street), and City/State/Zip (Philadelphia, PA 19103-1187).

Certificates will be mailed in window envelopes

Complete all necessary spaces. See your instructions in space 10.

- 1. Application form
2. Reproduction fee (see fee schedule)
3. Deposit method

Register of Copyrights Library of Congress Washington, D.C. 20540

U.S.C. § 508(a) 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 other statement filed in connection with the application, shall be fined not more than \$2,500.

EXHIBIT 90



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
United States of America

TX 4-029-468



EFFECTIVE DATE OF REGISTRATION

MAR 16 1995

Month Day Year

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

1

TITLE OF THIS SERIAL ▼
1995 Annual Book of ASTM Standards: *Petroleum Products, Lubricants and Fossil Fuels*
Petroleum Products and Lubricants (I): D2597 - D4629

Volume ▼ *05* Number ▼ *02* Date on Copies ▼ *March 1995* Frequency of Publication ▼ *Annual*

PREVIOUS OR ALTERNATIVE TITLES ▼

2

NOTE: Under the law the "author" of a "work made for hire" is generally the employer not the employee.

a NAME OF AUTHOR ▼ American Society for Testing and Materials

Was this contribution to the work a "work made for hire"? Yes No

AUTHOR'S NATIONALITY OR DOMICILE
Name of Country: *United States*
OR Citizen of *United States*
Domiciled in *United States*

WAS THIS AUTHOR'S CONTRIBUTION TO THE WORK
Anonymous? Yes No
Pseudonymous? Yes No

NATURE OF AUTHORSHIP Briefly describe nature of the material created by this author in which copyright is claimed. ▼
 Collective Work Other: *Entire Text*

b NAME OF AUTHOR ▼

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 _____

WAS THIS AUTHOR'S CONTRIBUTION TO THE WORK
Anonymous? Yes No
Pseudonymous? Yes No

NATURE OF AUTHORSHIP Briefly describe nature of the material created by this author in which copyright is claimed. ▼
 Collective Work Other: _____

c NAME OF AUTHOR ▼

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 _____

WAS THIS AUTHOR'S CONTRIBUTION TO THE WORK
Anonymous? Yes No
Pseudonymous? Yes No

NATURE OF AUTHORSHIP Briefly describe nature of the material created by this author in which copyright is claimed. ▼
 Collective Work Other: _____

3

YEAR IN WHICH CREATION OF THIS ISSUE WAS COMPLETED *1995* 4 Year

DATE AND NATION OF FIRST PUBLICATION OF THIS PARTICULAR ISSUE
Month *March* Day *1* Year *1995*
U.S.A. Nation

4

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
Philadelphia, PA 19103-1187

DO NOT WRITE IN THESE SPACES

APPLICATION RECEIVED
MAR 16 1995

ONE DEPOSIT RECEIVED

TWO DEPOSITS RECEIVED
MAR 16 1995

REMITTANCE NUMBER AND DATE

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. ▼

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

EXAMINED BY

dh

FORM SE

CHECKED BY

CORRESPONDENCE
Yes

FOR
COPYRIGHT
OFFICE
USE
ONLY

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 ▼

TKF 3-881-479

Year of Registration ▼

1994

DERIVATIVE WORK OR COMPILATION Complete both space 6a & 6b for a derivative work, complete only 6b for a compilation.

a. **Preexisting Material** Identify any preexisting work or works that this work is based on or incorporates. ▼

1994 Annual Book of ASTM Standards, Section 05, Volume 02.

b. **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 previous published text plus additional text.

See instructions
before completing
this space

—space deleted—

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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

Copies Only

Phonorecords Only

See instructions

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 ▼

CORRESPONDENCE Give name and address to which correspondence about this application should be sent. Name Address Apt City State Zip ▼

Robert L. Meltzer, ASTM

1916 Race Street

Philadelphia, PA 19103-1187

Area Code & Telephone Number ▶ **215-299-5431**

Be sure to
give your
daytime phone
number

CERTIFICATION* I, the undersigned, hereby certify that I am the

Check one ▶

author

other copyright claimant

owner of exclusive right(s)

authorized agent of **American Society for Testing and Materials**

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.

Typed or printed name and date ▼ If this application gives a date of publication in space 3, do not sign and submit it before that date.

Robert L. Meltzer

date ▶

March 8, 1995



Handwritten signature (X) ▼

Robert L. Meltzer

**MAL
CERTIFI-
CATE TO**

Name ▼

Kathe Hooper, ASTM

Number Street Apartment Number ▼

1916 Race Street

City State ZIP ▼

Philadelphia, PA 19103-1187

Certificate will be mailed in window envelope

- Complete all necessary spaces
- Sign your enrollment in space 10

1. Application form
2. Nonrefundable \$20 filing fee in check or money order payable to Registrar of Copyrights
3. Deposit material

Registrar of Copyrights
Library of Congress
Washington, D.C. 20559

* 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.

EXHIBIT 91

CERTIFICATE OF REGISTRATION

FORM SE

For a Serial
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.

Marybeth Peters
REGISTER OF COPYRIGHTS
United States of America

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[Barcode]
TX800498490

EFFECTIVE DATE OF REGISTRATION
4 20 99
Month Day Year

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1

TITLE OF THIS SERIAL ▼

1999 Annual Book of ASTM Standards, Petroleum Products and Lubricants (II): D 2597 - D 4927

Volume ▼	Number	Date on Copies ▼	Frequency of Publication ▼
05.02	05	March 1999	Annual

PREVIOUS OR ALTERNATIVE TITLES ▼

2

a NAME OF AUTHOR ▼
American Society for Testing and Materials

DATES OF BIRTH AND DEATH
Year Born ▼ 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

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.

NATURE OF AUTHORSHIP Briefly describe nature of the material created by this author in which copyright is claimed. ▼
 Collective Work Other: Entire Text

NAME OF AUTHOR ▼

DATES OF BIRTH AND DEATH
Year Born ▼ 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 ▶

WAS THIS AUTHOR'S CONTRIBUTION TO THE WORK
Anonymous? Yes No
Pseudonymous? Yes No
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 Collective Work Other:

NAME OF AUTHOR ▼

DATES OF BIRTH AND DEATH
Year Born ▼ Year Died

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 No

AUTHOR'S NATIONALITY OR DOMICILE
Name of Country
OR { Citizen of ▶
Domiciled in ▶

WAS THIS AUTHOR'S CONTRIBUTION TO THE WORK
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Pseudonymous? Yes No
If the answer to either of these questions is "Yes," see detailed instructions.

NATURE OF AUTHORSHIP Briefly describe nature of the material created by this author in which copyright is claimed. ▼
 Collective Work Other:

3

a YEAR IN WHICH CREATION OF THIS ISSUE WAS COMPLETED
1999 Year

b

DATE AND NATION OF FIRST PUBLICATION OF THIS PARTICULAR ISSUE
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Month ▶ March Day ▶ 24 Year ▶ 1999
United States Nation

4

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American Society for Testing and 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.

DO NOT WRITE HERE OFFICE USE ONLY
APPLICATION RECEIVED
APR. 20. 1999
ONE DEPOSIT RECEIVED
TWO DEPOSITS RECEIVED
APR. 20. 1999
REMITTANCE NUMBER AND DATE

See instructions before completing this space.

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 Page 1 of 2 pages

EXAMINED BY

FORM SE

CHECKED BY

CORRESPONDENCE
Yes

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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 ▼ Year of Registration ▼

5

DERIVATIVE WORK OR COMPILATION Complete both space 6a & 6b for a derivative work; complete only 6b for a compilation.

a. **Preexisting Material** Identify any preexisting work or works that this work is based on or incorporates. ▼

1998 Annual Book of ASTM Standards, Section 05, Volume 05.02

b. **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.

See instructions
before completing
this space.

Compilation of previous published text plus additional text.

---space deleted---

6

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.

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c. Phonorecords Only

See instructions.

7

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 ▼

American Society for Testing and Materials

DA078328

8

CORRESPONDENCE Give name and address to which correspondence about this application should be sent.

Name/Address/Apt/City/State/ZIP ▼

Kathe Hooper, American Society for Testing and Materials

100 Barr Harbor Drive

West Conshohocken, PA 19428-2959

Area Code & Telephone Number ▶ (610) 832-9634

Be sure to
give your
daytime phone
number.

CERTIFICATION* I, the undersigned, hereby certify that I am the

Check only one ▶

author

other copyright claimant

owner of exclusive right(s)

authorized agent of American Society for Testing & Materials

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.

Typed or printed name and date ▼ If this application gives a date of publication in space 3, do not sign and submit it before that date.

Robert L. Meltzer

date ▶ 3-29-99

10

Handwritten signature (X)

MAIL
CERTIFICATE
TO

Certificate
will be
mailed in
window
envelope

Name	Kathe Hooper, ASTM
Number/Street/Apartment Number ▼	100 Barr Harbor Drive
City/State/ZIP ▼	West Conshohocken, PA 19428-2959

FOR LIST

- Complete all necessary spaces
- Sign your application in space 10

SEND ALL ELEMENTS IN THE SAME PACKAGE

1. Application form
2. Nonrefundable \$20 filing fee in check or money order payable to Register of Copyrights
3. Deposit material

MAIL TO

Register of Copyrights
Library of Congress
Washington, D.C. 20559

11

The Copyright Office has the authority to adjust fees at 5-year intervals, based on changes in the Consumer Price Index. The next adjustment is due in 1998. Please contact the Copyright Office after July 1995 to determine the actual fee schedule.

*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.

EXHIBIT 92

TX : 2-209-876

U
EFFECTIVE DATE OF REGISTRATION
12 10 87
Month Day Year

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

1
TITLE OF THIS SERIAL ▼
1987 Annual Book of ASTM Standards, Textiles - Yarns, Fabrics, and General Test Methods

Volume ▼ Number ▼ Date on Copies ▼ Frequency of Publication ▼
07.01 07 October 1987 Annual

PREVIOUS OR ALTERNATIVE TITLES ▼

2 a
NAME OF AUTHOR ▼
American Society for Testing and Materials

DATES OF BIRTH AND DEATH ▼
Year Born ▼ 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

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.

NATURE OF AUTHORSHIP Briefly describe nature of the material created by this author in which copyright is claimed. ▼

Collective Work Other: Entire Text

DATES OF BIRTH AND DEATH ▼
Year Born ▼ Year Died ▼

NOTE

Under the law, the "author" of a "work made for hire" is generally the employer, not the employee (see instructions). For any part of this work that was "made for hire" check "Yes" in the space provided, give the employer (or other person for whom the work was prepared) as "Author" of that part, and issue the notice.

b
NAME OF AUTHOR ▼

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 ►

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.

NATURE OF AUTHORSHIP Briefly describe nature of the material created by this author in which copyright is claimed. ▼

Collective Work Other:

DATES OF BIRTH AND DEATH ▼
Year Born ▼ Year Died ▼

c
NAME OF AUTHOR ▼

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 ►

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.

NATURE OF AUTHORSHIP Briefly describe nature of the material created by this author in which copyright is claimed. ▼

Collective Work Other:

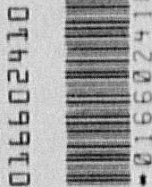
YEAR IN WHICH CREATION OF THIS ISSUE WAS COMPLETED This information must be given in all cases. 1987
DATE AND NATION OF FIRST PUBLICATION OF THIS PARTICULAR ISSUE Complete this information ONLY if this work has been published. Month ► November Day ► 11 Year ► 1987 U. S. A. Nation

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American Society for Testing and Materials
1916 Race Street
Philadelphia, PA 19103

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. ▼

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TWO DEPOSITS RECEIVED
DEC 10 1987
REMITTANCE NUMBER AND DATE



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FORM SE

CHECKED BY

TX 2-209-876

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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 ▼

TX 1-959-457

Year of Registration ▼ 1986

5

DERIVATIVE WORK OR COMPILATION Complete both space 6a & 6b for a derivative work, complete only 6b for a compilation.

a. Preexisting Material Identify any preexisting work or works that this work is based on or incorporates. ▼

1986 Annual Book of ASTM Standards Section 07 Volume 07.01

6

b. 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 previous published text plus additional text.

See instructions before completing this space.

MANUFACTURERS AND LOCATIONS If this is a published work consisting preponderantly of nondramatic literary material in English, the law may 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 Manufacturers ▼

Waverly Press, Inc.

Places of Manufacture ▼

Easton, MD

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a. Copies and Phonorecords

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8

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 ▼

9

CORRESPONDENCE Give name and address to which correspondence about this application should be sent. Name/Address/Apt/City/State/Zip ▼

R. L. Meltzer, ASTM

1916 Race Street

Philadelphia, PA 19103

Area Code & Telephone Number ▶

215-299-5431

Be sure to give your daytime phone number.

CERTIFICATION I, the undersigned, hereby certify that I am the

Check one ▶

- author
- other copyright claimant
- owner of exclusive right(s)
- authorized agent of

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.

Name of author or other copyright claimant, or owner of exclusive right(s) ▲

Typed or printed name and date ▼ If this is a published work, this date must be the same as or later than the date of publication given in space 3.

Robert L. Meltzer

12/02/87

date ▶

10

Handwritten signature (X) ▼

Robert L. Meltzer

MAIL CERTIFICATE TO

Certificate will be mailed in window envelope

Name ▼

Kathe Scholl, ASTM

Number/Street/Apartment Number ▼

1916 Race Street

City/State/ZIP ▼

Philadelphia, PA 19103

Have you:

- Completed all necessary spaces?
- Signed your application in space 10?
- Enclosed check or money order for \$10 payable to Register of Copyrights?
- Enclosed your deposit material with the application and fee?

MAIL TO: Register of Copyrights, Library of Congress, Washington, D.C. 20559.

11

* 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.

EXHIBIT 93

FORM SE
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UNITED STATES COPYRIGHT OFFICE



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TX 4-920-028

TX000-1920028

107069884

107069884

U
EFFECTIVE DATE OF REGISTRATION
6 / 1 / 99
Month Day Year

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1

TITLE OF THIS SERIAL ▼

1999 Annual Book of ASTM Standards, Water (I)

Volume	Number ▼	Date on Copies ▼	Frequency of Publication ▼
11.01	11	April 1999	Annual

PREVIOUS OR ALTERNATIVE TITLES ▼

2

a NAME OF AUTHOR
American Society for Testing and Materials

DATES OF BIRTH AND DEATH
Year Born ▼ 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

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.

NATURE OF AUTHORSHIP Briefly describe nature of the material created by this author in which copyright is claimed.

Collective Work Other: Entire Text

NOTE

Under the law, the "author" of a work made for hire is generally the employer, or the employee (see instructions). For any part of this work that was made for hire" check "Yes" in the space provided, give the employer (or other person for whom the work was prepared) as "Author" of that part, and save the space for dates of birth or death blank.

c

NAME OF AUTHOR ▼

DATES OF BIRTH AND DEATH
Year Born ▼ 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 ►

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OR { Citizen of ►
Domiciled in ►

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United States Nation

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100 Barr Harbor Drive
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JUN 01 1999
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JT

CORRESPONDENCE
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ONLY

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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 Year of Registration ▼

5

DERIVATIVE WORK OR COMPILATION Complete both space 6a & 6b for a derivative work; complete only 6b for a compilation.

a. Preexisting Material Identify any preexisting work or works that this work is based on or incorporates. ▼

1998 Annual Book of ASTM Standards, Section 11, Volume 11.01

6

b. 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. ▼

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See instructions
before completing
this space.

---space deleted---

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c Phonorecords Only

See instructions.

8

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 ▼ American Society for Testing and Materials

Account Number

DA078328

9

CORRESPONDENCE Give name and address to which correspondence about this application should be sent.

Name/Address/Apt/City/State/ZIP ▼

Kathe Hooper, American Society for Testing and Materials

100 Barr Harbor Drive

West Conshohocken, PA 19428-2959

Area Code & Telephone Number ▶ (610) 832-9634

Be sure to
give your
daytime phone
number.

CERTIFICATION* I, the undersigned, hereby certify that I am the

Check only one ▶

author

other copyright claimant

owner of exclusive right(s)

authorized agent of American Society for Testing & Materials

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.

10

Typed or printed name and date ▼ If this application gives a date of publication in space 3, do not sign and submit it before that date.

Robert L. Meltzer

date ▶ 5-24-99

Handwritten signature (S) ▼
Robert L. Meltzer

MAIL
CERTIFICATE
TO

Name

Kathe Hooper, ASTM

Number/Street/Apartment Number ▼

100 Barr Harbor Drive

City/State/ZIP ▼

West Conshohocken, PA 19428-2959

Certificate
will be
mailed in
window
envelope

YOU MUST

• Complete all necessary spaces

• Sign your application in space 10

SEND ALL ELEMENTS
IN THE SAME PACKAGE

1. Application form

2. Nonrefundable \$20 filing fee
in check or money order
payable to Register of Copyrights

3. Deposit material

MAIL TO

Register of Copyrights
Library of Congress
Washington, D.C. 20559

The Copyright Office has the authority to adjust fees at 5-year intervals, based on changes in the Consumer Price Index. The next adjustment is due in 1995. Please contact the Copyright Office after July 1995 to determine the actual fee schedule.

11

*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.

EXHIBIT 94

FORM SE
For a Serial
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.

Marybeth Peters

REGISTER OF COPYRIGHTS
United States of America

TX 4-622-434
EFFECTIVE DATE OF REGISTRATION

FEB 20 1998
Month Day Year

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

TITLE OF THIS SERIAL
1998 Annual Book of ASTM Standards PETROLEUM PRODUCTS, LUBRICANTS, and
Fossil Fuels: PETROLEUM PRODUCTS AND LUBRICANTS (11): D2597 - D4629

Volume 05.02 Number 05 Date on Copies MARCH 1998 Frequency of Publication Annual

PREVIOUS OR ALTERNATIVE TITLES

2 NAME OF AUTHOR
a American Society for Testing and Materials

DATES OF BIRTH AND DEATH
Year Born 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 United States
Domiciled in United States

WAS THIS AUTHOR'S CONTRIBUTION TO THE WORK
Anonymous? Yes No
Pseudonymous? Yes No

NATURE OF AUTHORSHIP Briefly describe nature of the material created by this author in which copyright is claimed.
 Collective Work Other: Entire Text

NAME OF AUTHOR

DATES OF BIRTH AND DEATH
Year Born Year Died

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 No

AUTHOR'S NATIONALITY OR DOMICILE
Name of Country
OR Citizen of
Domiciled in

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Name of Country
OR Citizen of
Domiciled in

WAS THIS AUTHOR'S CONTRIBUTION TO THE WORK
Anonymous? Yes No
Pseudonymous? Yes No

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 ISSUE WAS COMPLETED
1998
This information must be given in all cases.

DATE AND NATION OF FIRST PUBLICATION OF THIS PARTICULAR ISSUE
Month FEB Day 7 Year 1998
U.S.A.
Complete this information ONLY if this work has been published.

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
100 Barr Harbor Drive
West Conshohocken, PA 19428-2959

APPLICATION RECEIVED
FEB 20 1998

ONE DEPOSIT RECEIVED

TWO DEPOSITS RECEIVED
FEB 20 1998

REMITTANCE NUMBER AND DATE

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.

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

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Page 1 of 2 pages

FORM SE
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COPYRIGHT
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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 Year of Registration 1997

DERIVATIVE WORK OR COMPILATION Complete both space 6a & 6b for a derivative work; complete only 6b for a compilation.

a. Preexisting Material Identify any preexisting work or works that this work is based on or incorporates. 1997 Annual Book of ASTM Standards, Section 05, Volume 05.02.

b. 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 previous published text plus additional text.

—space deleted—

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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 American Society for Testing and Materials Account Number 08078328

CORRESPONDENCE Give name and address to which correspondence about this application should be sent. Name/Address: Apt-City/State/Zip

Robert L. Meltzer, ASTM
100 Barr Harbor Drive
West Conshohocken, PA 19428-2959
Area Code & Telephone Number 610-832-9632

CERTIFICATION I, the undersigned, hereby certify that I am the

- Check one: author, other copyright claimant, owner of exclusive right(s), authorized agent of 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.

Typed or printed name and date If this application gives a date of publication in space 3, do not sign and submit it before that date.

Robert L. Meltzer date 2/13/98

Handwritten signature of Robert L. Meltzer

MAIL CERTIFICATE TO Certificate will be mailed in window envelope

Name: Kathie Hooper, ASTM
Number Street Apartment Number: 100 Barr Harbor Drive
City State ZIP: West Conshohocken, PA 19428-2959

- 1. Application form
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* 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

EXHIBIT 95

CERTIFICATE OF REGISTRATION

Case 1:16-cv-01815 Document 198-10 Filed 10/07/19 Page 44 of 90

FORM SE For a Serial

UNITED STATES COPYRIGHT OFFICE



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.

Marybeth Peters

REGISTER OF COPYRIGHTS United States of America

TX 4-399-608



1:20084399608*

EFFECTIVE DATE OF REGISTRATION

12 13 1996
Month Day Year

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

TITLE OF THIS SERIAL

1996 Annual Book of ASTM Standards: Atmospheric Analysis; Occupational Health and Safety; Protective Clothing

Volume 11 Number 03 Date on Copies October 1996 Frequency of Publication Annual

PREVIOUS OR ALTERNATIVE TITLES

NAME OF AUTHOR

American Society for Testing and Materials

DATES OF BIRTH AND DEATH

Year Born Year Died

Was this contribution to the work a "work made for hire"? Yes No

AUTHOR'S NATIONALITY OR DOMICILE

Citizen of United States Domiciled in United States

WAS THIS AUTHOR'S CONTRIBUTION TO THE WORK

Anonymous? Pseudonymous? Yes No

NATURE OF AUTHORSHIP Briefly describe nature of the material created by this author in which copyright is claimed.

Collective Work Other: Entire Text

NAME OF AUTHOR

DATES OF BIRTH AND DEATH

Year Born Year Died

Was this contribution to the work a "work made for hire"? Yes No

AUTHOR'S NATIONALITY OR DOMICILE

Citizen of Domiciled in

WAS THIS AUTHOR'S CONTRIBUTION TO THE WORK

Anonymous? Pseudonymous? Yes No

NATURE OF AUTHORSHIP Briefly describe nature of the material created by this author in which copyright is claimed.

Collective Work Other:

NAME OF AUTHOR

DATES OF BIRTH AND DEATH

Year Born Year Died

Was this contribution to the work a "work made for hire"? Yes No

AUTHOR'S NATIONALITY OR DOMICILE

Citizen of Domiciled in

WAS THIS AUTHOR'S CONTRIBUTION TO THE WORK

Anonymous? Pseudonymous? Yes No

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 ISSUE WAS COMPLETED 1996

DATE AND NATION OF FIRST PUBLICATION OF THIS PARTICULAR ISSUE

Month December Day 3 Year 1996 U.S.A. Nation

COPYRIGHT CLAIMANT(S) Name and address must be given even if the claimant is the same as the author given in space 2.

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 Yes No If your answer is "Yes," why is another registration being sought? (Check appropriate box) ▼

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- 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.

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TH#

4-174-346

Year of Registration ▼

1996

DERIVATIVE WORK OR COMPILATION Complete both space 6a & 6b for a derivative work; complete only 6b for a compilation.

a. **Preexisting Material** Identify any preexisting work or works that this work is based on or incorporates.
1996 Annual Book of ASTM Standards, Section 11, Volume 11.

b. **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. ▼
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Name ▼ **American Society for Testing and Materials**

Account Number ▼

DA078328

CORRESPONDENCE Give name and address to which correspondence about this application should be sent. Name: Address: Apt City State Zip ▼

Robert L. Meltzer, ASTM

100 Barr Harbor Drive

West Conshohocken, PA 19428-2959

Area Code & Telephone Number ▶

610-832-9632

Be sure to
give your
daytime phone
number

CERTIFICATION* I, the undersigned, hereby certify that I am the

Check one ▶

author

other copyright claimant

owner of exclusive right(s)

authorized agent of

American Society for Testing and Materials

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.

Typed or printed name and date ▼ If this application gives a date of publication in space 3, do not sign and submit it before that date.

Robert L. Meltzer

date

December 3, 1996

Handwritten signature (X) ▼

Robert L. Meltzer

MAIL CERTIFICATE TO

Name ▼

Judy Helm, ASTM

Number Street Apartment Number ▼

100 Barr Harbor Drive

City State ZIP ▼

West Conshohocken, PA 19428-2959

YOU MUST

- Complete all necessary spaces
- Sign your application in space 10

SEND ALL TELEPHONES IN THE SAME PACKAGE

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2. Nonrefundable \$20 filing fee in check or money order payable to Register of Copyrights
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EXHIBIT 96

CERTIFICATE OF REGISTRATION



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TX 4-511-604



Marybeth Peters

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7 1 1997

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TITLE OF THIS SERIAL

1997 Annual Book of ASTM Standards

and Fuel Facts Petroleum Products and Substitutes

Volume

05

Number

03

Date on Copies

July 1997

Frequency of Publication

Annual

PREVIOUS OR ALTERNATIVE TITLES

2 NAME OF AUTHOR

American Society for Testing and Materials

DATES OF BIRTH AND DEATH

Was this contribution to the work a "work made for hire"?

Yes No

AUTHOR'S NATIONALITY OR DOMICILE

United States

WAS THIS AUTHOR'S CONTRIBUTION TO THE WORK

Anonymous? Pseudonymous?

NATURE OF AUTHORSHIP

Collective Work Other Entire Text

3 NAME OF AUTHOR

DATES OF BIRTH AND DEATH

Was this contribution to the work a "work made for hire"?

Yes No

AUTHOR'S NATIONALITY OR DOMICILE

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WAS THIS AUTHOR'S CONTRIBUTION TO THE WORK

Anonymous? Pseudonymous?

NATURE OF AUTHORSHIP

Collective Work Other

4 NAME OF AUTHOR

DATES OF BIRTH AND DEATH

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AUTHOR'S NATIONALITY OR DOMICILE

United States

WAS THIS AUTHOR'S CONTRIBUTION TO THE WORK

Anonymous? Pseudonymous?

NATURE OF AUTHORSHIP

Collective Work Other

YEAR IN WHICH CREATION OF THIS ISSUE WAS COMPLETED

1997

DATE AND NATION OF FIRST PUBLICATION OF THIS PARTICULAR ISSUE

July 1997 U.S.A.

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- 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

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DERIVATIVE WORK OR COMPILATION Complete both space 6a & 6b for a derivative work; complete only 6b for a compilation

a. Preexisting Material Identify any preexisting work or works that this work is based on or incorporates ▼
1997 Annual Book of ASTM Standards, Section 15, Volume 03.

b. 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 ▼
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Name ▼ **American Society for Testing and Materials** Account Number ▼ **# DA078328**

CORRESPONDENCE Give name and address to which correspondence about this application should be sent Name Address Apt City State Zip ▼

Robert L. Meltzer, ASTM
100 Barr Harbor Drive
West Conshohocken, PA 19428-2959
Area Code & Telephone Number ▼ **610-832-9632**

CERTIFICATION* I, the undersigned, hereby certify that I am the

- author
- other copyright claimant
- owner of exclusive right(s)
- authorized agent of

American Society for Testing and Materials
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

Typed or printed name and date ▼ If this application gives a date of publication in space 3, do not sign and submit it before that date.

Robert L. Meltzer date ▼ *June 19, 1996*

Handwritten signature (X) ▼ *Robert L. Meltzer*

MAIL CERTIFICATE TO
Certificate will be mailed in window envelope

Name ▼ **Judy Helm, ASTM**

Number Street Apartment Number ▼ **100 Barr Harbor Drive**

City State ZIP ▼ **West Conshohocken, PA 19428-2959**

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EXHIBIT 97

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 3-553-811

October 1, 2019

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United States Register of Copyrights and Director

FORM SE
UNITED STATES COPYRIGHT OFFICE

REGISTRATION NUMBER

TX 3 553-811

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TITLE OF THIS SERIAL ▼
1993 Annual Book of ASTM Standards: WATER AND ENVIRONMENTAL
TECHNOLOGY: WATER (1)

Volume ▼ Number ▼ Date in Copies ▼ Frequency of Publication ▼
11.02 11 APRIL 1993 Annual

PREVIOUS OR ALTERNATIVE TITLES ▼

NAME OF AUTHOR ▼

American Society for Testing and Materials

DATES OF BIRTH AND DEATH
Year Born ▼ 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 ▼ United States
Domiciled in ▼

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.

NATURE OF AUTHORSHIP Briefly describe nature of the material created by this author in which copyright is claimed. ▼

Collective Work Other: Entire Text

NAME OF AUTHOR ▼

DATES OF BIRTH AND DEATH
Year Born ▼ 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 ▼

WAS THIS AUTHOR'S CONTRIBUTION TO THE WORK

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Pseudonymous? Yes No

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Collective Work Other:

NAME OF AUTHOR ▼

DATES OF BIRTH AND DEATH
Year Born ▼ 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 ▼

WAS THIS AUTHOR'S CONTRIBUTION TO THE WORK

Anonymous? Yes No
Pseudonymous? Yes No

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3 a YEAR IN WHICH CREATION OF THIS ISSUE WAS COMPLETED This information must be given in all cases.
1993

b DATE AND NATION OF FIRST PUBLICATION OF THIS PARTICULAR ISSUE Complete this information ONLY if the work has been published.
Month ▼ 4 Day ▼ 29 Year ▼ 93

U.S.A. Nation

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American Society for Testing & Materials
1916 Race Street
Philadelphia, PA 19103-1187

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TWO DEPOSITS RECEIVED

JUN 21 1993

REMITTANCE NUMBER AND DATE

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TX 3 553-811

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CORRESPONDENCE
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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 ▼

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1992

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a. Preexisting Material Identify any preexisting work or works that this work is based on or incorporates. ▼

1992 Annual Book of ASTM Standards, Section 11, Volume 11.02

b. Material Added to Work Give a brief, general statement of the material that has been added to this work and in which copyright is claimed ▼
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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 ▼

CORRESPONDENCE Give name and address to which correspondence about this application should be sent. Name/Address/Apt./City/State/Zip ▼

Robert L. Meltzer, ASTM

1916 Race Street

Philadelphia, PA 19103-1187

Area Code & Telephone Number ▶ 215-299-5431

CERTIFICATION I, the undersigned, hereby certify that I am the

Check one ▶

author

other copyright claimant

owner of exclusive rights

authorized agent of 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.

Typed or printed name and date ▼ If this application gives a date of publication in space 3, do not sign and submit it before that date.

Robert L. Meltzer

date ▶

5/27/92

Handwritten signature ▼
Robert L. Meltzer

MAIL CERTIFICATE TO

Certificate will be mailed in window on release

Name ▼	Kathe Hooper, ASTM
Number/Street/Apartment Number ▼	1916 Race Street
City/State/ZIP ▼	Philadelphia, PA 19103-1187

- Complete all necessary spaces
- Sign your application in space 10

1. Application form
2. Non-refundable \$20 filing fee in check or money order payable to Register of Copyrights
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Register of Copyrights
Library of Congress
Washington, D.C. 20540

17 U.S.C. 505(a) 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 in connection with the application, shall be fined not more than \$2,500

October 1980-75,000

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Marybeth Peters

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TITLE OF THIS SERIAL

1

1998 Annual Book of ASTM Standards, Gaseous Fuels; Coal and Coke

Table with 4 columns: Volume, Number, Date on Copies, Frequency of Publication. Values: 05.05, 05, September 1998, Annual.

PREVIOUS OR ALTERNATIVE TITLES

2

NAME OF AUTHOR

a American Society for Testing and Materials

DATES OF BIRTH AND DEATH Year Born Year Died

Was this contribution to the work a "work made for hire"? Yes No

AUTHOR'S NATIONALITY OR DOMICILE Name of Country Citizen of Domiciled in United States

WAS THIS AUTHOR'S CONTRIBUTION TO THE WORK Anonymous? Pseudonymous? Yes No Yes No

NATURE OF AUTHORSHIP Briefly describe nature of the material created by this author in which copyright is claimed.

Collective Work Other: Entire Text

NAME OF AUTHOR

DATES OF BIRTH AND DEATH Year Born Year Died

Was this contribution to the work a "work made for hire"? Yes No

AUTHOR'S NATIONALITY OR DOMICILE Name of Country Citizen of Domiciled in

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DATES OF BIRTH AND DEATH Year Born Year Died

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AUTHOR'S NATIONALITY OR DOMICILE Name of Country Citizen of Domiciled in

WAS THIS AUTHOR'S CONTRIBUTION TO THE WORK Anonymous? Pseudonymous? Yes No Yes No

NATURE OF AUTHORSHIP Briefly describe nature of the material created by this author in which copyright is claimed.

Collective Work Other:

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YEAR IN WHICH CREATION OF THIS ISSUE WAS COMPLETED 1998

DATE AND NATION OF FIRST PUBLICATION OF THIS PARTICULAR ISSUE Month September Day 1 Year 1998 United States

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American Society for Testing and 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.

APPLICATION RECEIVED SEP 10 1998 ONE DEPOSIT RECEIVED TWO DEPOSITS RECEIVED SEP 10 1998 REMITTANCE NUMBER AND DATE

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RE

FORM SE

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MRA

CORRESPONDENCE
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- b. This is the first application submitted by this author as copyright claimant.
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If your answer is "Yes," give: Previous Registration Number ▼ Year of Registration ▼

5

DERIVATIVE WORK OR COMPILATION Complete both space 6a & 6b for a derivative work; complete only 6b for a compilation.

a. Preexisting Material Identify any preexisting work or works that this work is based on or incorporates. ▼
1997 Annual Book of ASTM Standards, Section 05, Volume 05.05

6

b. 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. ▼
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8

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Name ▼ Account Number ▼

American Society for Testing and Materials

DA078328

9

CORRESPONDENCE Give name and address to which correspondence about this application should be sent.

Name/Address/Apt/City/State/ZIP ▼

Kathe Hooper, American Society for Testing and Materials
100 Barr Harbor Drive
West Conshohocken, PA 19428-2959

Area Code & Telephone Number ▶ (610) 832-9634

Be sure to give your daytime phone number.

CERTIFICATION* I, the undersigned, hereby certify that I am the

- Check only one ▶
- author
 - other copyright claimant
 - owner of exclusive right(s)
 - authorized agent of American Society for Testing & 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.

Name of author or other copyright claimant, or owner of exclusive right(s) ▲

Typed or printed name and date ▼ If this application gives a date of publication in space 3, do not sign and submit it before that date.

Robert L. Meltzer

date ▶ 9-1-98

10

Handwritten signature (X)
Robert L. Meltzer

MAIL
CERTIFICATE
TO

Name ▼ Kathe Hooper, ASTM
Number/Street/Apartment Number ▼ 100 Barr Harbor Drive
City/State/ZIP ▼ West Conshohocken, PA 19428-2959

Certificate will be mailed in window envelope

- Complete all necessary spaces
- Sign your application in space 10

1. Application form
 2. Nonrefundable \$20 filing fee in check or money order payable to Register of Copyrights
 3. Deposit material
- Register of Copyrights
Library of Congress
Washington, D.C. 20559

The Copyright Office has the authority to adjust fees at 6-year intervals, based on changes in the Consumer Price Index. The next adjustment is due in 1994. Please contact the Copyright Office after July 1993 to determine the actual fee schedule.

11

*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 408, or in any written statement filed in connection with the application, shall be fined not more than \$2,500.

EXHIBIT 99



EFFECTIVE DATE OF REGISTRATION

Month FEB 01 1995 Year

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

TITLE OF THIS SERIAL
1994 Annual Book of ASTM Standards: *Textiles (11): D 3333 - Latest*

Volume 07 Number 02 Date on Copies November Frequency of Publication Annual
PREVIOUS OR ALTERNATIVE TITLES

NAME OF AUTHOR
American Society for Testing and Materials

DATES OF BIRTH AND DEATH
Year Born 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

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.

NATURE OF AUTHORSHIP Briefly describe nature of the material created by this author in which copyright is claimed.
 Collective Work Other: Entire Text

NAME OF AUTHOR DATES OF BIRTH AND DEATH
Year Born 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

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.

NATURE OF AUTHORSHIP Briefly describe nature of the material created by this author in which copyright is claimed.
 Collective Work Other:

NAME OF AUTHOR DATES OF BIRTH AND DEATH
Year Born 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

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.

NATURE OF AUTHORSHIP Briefly describe nature of the material created by this author in which copyright is claimed.
 Collective Work Other:

3 a YEAR IN WHICH CREATION OF THIS ISSUE WAS COMPLETED 1994
b DATE AND NATION OF FIRST PUBLICATION OF THIS PARTICULAR ISSUE
Complete this information ONLY if this work has been published. Month January Day 19 Year 1995 U.S.A. Nation

4 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
Philadelphia, PA 19103-1187

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.

DO NOT WRITE HERE OFFICE USE ONLY
APPLICATION RECEIVED FEB 01 1995
ONE DEPOSIT RECEIVED
TWO DEPOSITS RECEIVED FEB 01 1995
REMITTANCE 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
Page 1 of 2 pages

071160969
071160969

"made for hire" check "Yes" in the space provided, give the employer (or other person for whom the work was prepared) as "Author" of that part, and leave the space for dates of birth and death blank

See instructions before completing this space

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CHECKED BY

CORRESPONDENCE
Yes

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OFFICE
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ONLY

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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 ▼

TX# 3-735-602

Year of Re-registration ▼

1993

DERIVATIVE WORK OR COMPILATION Complete both space 6a & 6b for a derivative work; complete only 6b for a compilation.

a. Preexisting Material Identify any preexisting work or works that this work is based on or incorporates. ▼

1993 Annual Book of ASTM Standards, Section 07, Volume 02.

b. 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 previous published text plus additional text.

See instructions before completing this space.

—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

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See instructions

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 ▼

CORRESPONDENCE Give name and address to which correspondence about this application should be sent. Name/Address/Apt/City/State/Zip ▼

Robert L. Meltzer, ASTM

1916 Race Street

Philadelphia, PA 19103-1187

Area Code & Telephone Number ▶ 215-299-5431

Be sure to give your daytime phone number

CERTIFICATION* I, the undersigned, hereby certify that I am the

Check one ▶

- author
- other copyright claimant
- owner of exclusive right(s)
- authorized agent of

American Society

for Testing and Materials

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.

Typed or printed name and date ▼ If this application gives a date of publication in space 3, do not sign and submit it before that date.

Robert L. Meltzer

date ▶

January 19, 1995

Handwritten signature (X) ▼

Robert L. Meltzer

MAIL CERTIFICATE TO

Name ▼	Kathe Hooper, ASTM
Number Street Apartment Number ▼	1916 Race Street
City State ZIP ▼	Philadelphia, PA 19103-1187

Certificate will be mailed in window envelope

- Complete all necessary spaces
- Sign your application in space 10

1. Application form
2. Nonrefundable \$20 filing fee in check or money order payable to Register of Copyrights
3. Deposit material

Register of Copyrights
Library of Congress
Washington, D.C. 20559

* 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.

EXHIBIT 100

FORM SE
For a Serial
UNITED STATES COPYRIGHT OFFICE
REGISTRATION NUMBER



TX 4-951-512



10866972



EFFECTIVE DATE OF REGISTRATION

AUG - 9 1999
Month Day Year

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TITLE OF THIS SERIAL

1

1999 Annual Book of ASTM Standards, Plastics (III): D 4329 - latest

Table with 4 columns: Volume, Number, Date on Copies, Frequency of Publication. Values: 08.03, 08, July 1999, Annual.

PREVIOUS OR ALTERNATIVE TITLES

2

NAME OF AUTHOR

a American Society for Testing and Materials

DATES OF BIRTH AND DEATH
Year Born Year Died

Was this contribution to the work a "work made for hire"?
Yes No

AUTHOR'S NATIONALITY OR DOMICILE
Name of Country
Citizen of
Domiciled in United States

WAS THIS AUTHOR'S CONTRIBUTION TO THE WORK
Anonymous? Pseudonymous?
Yes No Yes No

NATURE OF AUTHORSHIP Briefly describe nature of the material created by this author in which copyright is claimed.

Collective Work Other: Entire Text

NOTE

Under the law, the "author" of a "work made for hire" is generally the employer, not the employee (see instructions). For any part of this work that was "made for hire" check "Yes" in the space provided, give the employer (or other person for whom the work was prepared) as "Author" of that part, and leave the space for dates of birth and death blank.

NAME OF AUTHOR

DATES OF BIRTH AND DEATH
Year Born Year Died

Was this contribution to the work a "work made for hire"?
Yes No

AUTHOR'S NATIONALITY OR DOMICILE
Name of Country
Citizen of
Domiciled in

WAS THIS AUTHOR'S CONTRIBUTION TO THE WORK
Anonymous? Pseudonymous?
Yes No Yes No

NATURE OF AUTHORSHIP Briefly describe nature of the material created by this author in which copyright is claimed.

Collective Work Other:

NAME OF AUTHOR

DATES OF BIRTH AND DEATH
Year Born Year Died

Was this contribution to the work a "work made for hire"?
Yes No

AUTHOR'S NATIONALITY OR DOMICILE
Name of Country
Citizen of
Domiciled in

WAS THIS AUTHOR'S CONTRIBUTION TO THE WORK
Anonymous? Pseudonymous?
Yes No Yes No

NATURE OF AUTHORSHIP Briefly describe nature of the material created by this author in which copyright is claimed.

Collective Work Other:

3

YEAR IN WHICH CREATION OF THIS ISSUE WAS COMPLETED

1999 Year

DATE AND NATION OF FIRST PUBLICATION OF THIS PARTICULAR ISSUE

Complete this information ONLY if this work has been published.
Month July Day 7 Year 1999
United States Nation

4

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American Society for Testing and Materials
100 Barr Harbor Drive
West Conshohocken, PA 19428-2959

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AUG. 09. 1999

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TWO DEPOSITS RECEIVED

AUG. 09. 1999
REMITTANCE NUMBER AND DATE

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.

EXAMINED BY

CHECKED BY

CORRESPONDENCE
Yes

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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 ▼ Year of Registration ▼

5

DERIVATIVE WORK OR COMPILATION Complete both space 6a & 6b for a derivative work; complete only 6b for a compilation.

a. **Preexisting Material** Identify any preexisting work or works that this work is based on or incorporates. ▼
1998 Annual Book of ASTM Standards, Section 08, Volume 08.03

b. **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 previous published text plus additional text.

See instructions before completing this space.

6

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- b. Copies Only
- c. Phonorecords Only

See instructions.

7

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 ▼

American Society for Testing and Materials DA078328

CORRESPONDENCE Give name and address to which correspondence about this application should be sent. Name/Address/Apt/City/State/ZIP

Kathe Hooper, American Society for Testing and Materials
100 Barr Harbor Drive
West Conshohocken, PA 19428-2959

Area Code & Telephone Number ▶ (610) 832-9634

Be sure to give your daytime phone number.

8

CERTIFICATION* I, the undersigned, hereby certify that I am the

- Check only one ▶
- author
 - other copyright claimant
 - owner of exclusive right(s)
 - authorized agent of American Society for Testing & 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. Name of author or other copyright claimant, or owner of exclusive right(s) ▲

Typed or printed name and date ▼ If this application gives a date of publication in space 3, do not sign and submit it before that date.

Robert L. Meltzer date ▶ 8-3-99

10

Handwritten signature (X) ▼

Robert L. Meltzer

MAIL
CERTIFICATE
TO

Name ▼	Kathe Hooper, ASTM
Number/Street/Apartment Number ▼	100 Barr Harbor Drive
City/State/ZIP	West Conshohocken, PA 19428-2959

Certificate will be mailed in window envelope

YOU MUST

- Complete all necessary spaces
- Sign your application in space 10

SEND ALL 3 ELEMENTS IN THE SAME PACKAGE.

1. Application form
2. Nonrefundable \$20 filing fee in check or money order payable to Register of Copyrights
3. Deposit material

MAIL TO

Register of Copyrights
Library of Congress
Washington, D.C. 20559

The Copyright Office has the authority to adjust fees at 5-year intervals, based on changes in the Consumer Price Index. The next adjustment is due in 1996. Please contact the Copyright Office after July 1995 to determine the actual fee schedule.

11

EXHIBIT 101



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
 United States of America

REGISTRATION NUMBER
TX 4-248-138
 EFFECTIVE DATE OF REGISTRATION
 Month _____ Day _____ Year _____

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

1
TITLE OF THIS SERIAL ▼
1996 Annual Book of ASTM Standards: Petroleum Products, Lubricants and Fossil Fuels
Volume ▼ **Number** ▼ **Date on Copies** ▼ **Frequency of Publication** ▼
 05 03 March '96 Annual
PREVIOUS OR ALTERNATIVE TITLES ▼

2
NAME OF AUTHOR ▼ **DATES OF BIRTH AND DEATH**
 American Society for Testing and Materials
 Year Born ▼ 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**
WAS THIS AUTHOR'S CONTRIBUTION TO THE WORK
 Anonymous? Yes No
 Pseudonymous? Yes No
NATURE OF AUTHORSHIP Briefly describe nature of the material created by this author in which copyright is claimed. ▼
 Collective Work Other: **Entire Text**

081447417
NAME OF AUTHOR ▼ **DATES OF BIRTH AND DEATH**
 Year Born ▼ 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 ▼ _____
WAS THIS AUTHOR'S CONTRIBUTION TO THE WORK
 Anonymous? Yes No
 Pseudonymous? Yes No
NATURE OF AUTHORSHIP Briefly describe nature of the material created by this author in which copyright is claimed. ▼
 Collective Work Other: _____

NAME OF AUTHOR ▼ **DATES OF BIRTH AND DEATH**
 Year Born ▼ 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 ▼ _____
WAS THIS AUTHOR'S CONTRIBUTION TO THE WORK
 Anonymous? Yes No
 Pseudonymous? Yes No
NATURE OF AUTHORSHIP Briefly describe nature of the material created by this author in which copyright is claimed. ▼
 Collective Work Other: _____

3
YEAR IN WHICH CREATION OF THIS ISSUE WAS COMPLETED This information must be given in all cases. **1996** Year
DATE AND NATION OF FIRST PUBLICATION OF THIS PARTICULAR ISSUE Complete this information ONLY if this work has been published. Month ▼ **March** Day ▼ **21** Year ▼ **1996**
 U.S.A. Nation

4
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
Philadelphia, PA 19103-1187

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 APPLICATION RECEIVED
MAR 23 1996
 ONE DEPOSIT RECEIVED
 TWO DEPOSITS RECEIVED
MAR 23 1996
 REMITTANCE NUMBER AND DATE

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. ▼

EXAMINED BY

Jms

FORM SE

CHECKED BY

MRC

CORRESPONDENCE

Yes

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USE
ONLY

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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 ▼

TX# *4-009-509*

Year of Registration ▼

1995

DERIVATIVE WORK OR COMPILATION Complete both space 6a & 6b for a derivative work; complete only 6b for a compilation.

a. Preexisting Material Identify any preexisting work or works that this work is based on or incorporates. ▼

1995 Annual Book of ASTM Standards, Section 25, Volume 13.

b. 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 previous published text plus additional text.

See instructions before completing this space

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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.

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c Phonorecords Only

See instructions

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 ▼ *American Society for Testing and Materials* Account Number ▼

DA078328

CORRESPONDENCE Give name and address to which correspondence about this application should be sent. Name Address/Apt City State Zip ▼

Robert L. Meltzer, ASTM

1916 Race Street

Philadelphia, PA 19103-1187

Area Code & Telephone Number ▶ *215-299-5431*

Be sure to give your daytime phone number

CERTIFICATION* I, the undersigned, hereby certify that I am the

Check one ▶

author

other copyright claimant

owner of exclusive right(s)

authorized agent of *American Society for Testing and Materials*

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.

Typed or printed name and date ▼ If this application gives a date of publication in space 3, do not sign and submit it before that date.

Robert L. Meltzer

date ▶ *March 21, 1996*

Handwritten signature (X) ▼

Robert L. Meltzer

MAIL CERTIFICATE TO

Name ▼

Kathe Hooper, ASTM

Number Street Apartment Number ▼

1916 Race Street

City State ZIP ▼

Philadelphia, PA 19103-1187

Certificate will be mailed in window envelope

• Complete all necessary spaces
• Sign your application in space 10

1. Application form
2. Nonrefundable \$20 filing fee in check or money order payable to Register of Copyrights
3. Deposit material

Register of Copyrights
Library of Congress
Washington, D.C. 20559

* 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.

EXHIBIT 102

CERTIFICATE OF COPYRIGHT REGISTRATION

FORM 5E
UNITED STATES COPYRIGHT OFFICE



OFFICIAL SEAL

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

REGISTRATION NUMBER

TX 2-697-913

EFFECTIVE DATE OF REGISTRATION

NOV 09 1989

Month Day Year

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

TITLE OF THIS SERIAL

1 1989 Annual Book of ASTM Standards, GASEOUS FUELS; COAL & COKE

Volume Number Date on Copies Frequency of Publication

05. 05.05 OCTOBER 1989 ANNUAL

PREVIOUS OR ALTERNATIVE TITLES

2 a NAME OF AUTHOR

American Society for Testing and Materials

DATES OF BIRTH AND DEATH
Year Born 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

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.

NATURE OF AUTHORSHIP Briefly describe nature of the material created by this author in which copyright is claimed.

Collective Work Other:

b NAME OF AUTHOR

DATES OF BIRTH AND DEATH
Year Born 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

WAS THIS AUTHOR'S CONTRIBUTION TO THE WORK
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Pseudonymous? Yes No
If the answer to either of these questions is "Yes," see detailed instructions.

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c NAME OF AUTHOR

DATES OF BIRTH AND DEATH
Year Born Year Died

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 No

AUTHOR'S NATIONALITY OR DOMICILE
Name of Country
OR Citizen of Domiciled in

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.

NATURE OF AUTHORSHIP Briefly describe nature of the material created by this author in which copyright is claimed.

Collective Work Other:

3 4 YEAR IN WHICH CREATION OF THIS ISSUE WAS COMPLETED
1989

DATE AND NATION OF FIRST PUBLICATION OF THIS PARTICULAR ISSUE
Month Day Year
U.S.A. Nation

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
Philadelphia, PA 19103

DO NOT WRITE HERE OFFICE USE ONLY
APPLICATION RECEIVED NOV 09 1989
ONE DEPOSIT RECEIVED
TWO DEPOSITS RECEIVED NOV 09 1989
REMITTANCE NUMBER AND DATE

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.

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
Page 1 of 2 pages

02945710
02945710

and death blank.

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EXAMINED BY

CHECKED BY

CORRESPONDENCE Yes

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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 ▼

Year of Registration ▼

TX 2469 788

1989

DERIVATIVE WORK OR COMPILATION Complete both space 6a & 6b for a derivative work; complete only 6b for a compilation.

a. Preexisting Material Identify any preexisting work or works that this work is based on or incorporates. ▼

1988 Annual Book of ASTM Standards, Section 15 Volume 05

b. 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 previous published text plus additional text.

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Names of Manufacturers ▼

Places of Manufacture ▼

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Easton, MD

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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 ▼

Account Number ▼

CORRESPONDENCE Give name and address to which correspondence about this application should be sent. Name/Address/Apt/City/State/Zip ▼

R. L. Meltzer, ASTM

1916 Race Street

Philadelphia, PA 19103

Area Code & Telephone Number ▶

(215) 299-5431

CERTIFICATION* I, the undersigned, hereby certify that I am the

Check one ▶

author

other copyright claimant

owner of exclusive right(s) American Society

authorized agent of for Testing and Materials

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.

Typed or printed name and date ▼ If this is a published work, this date must be the same as or later than the date of publication given in space 3.

Robert L. Meltzer

date ▶

10/23/89

Handwritten signature (X)

Robert L. Meltzer

MAIL CERTIFICATE TO

Certificate will be mailed in window envelope

Name ▼

Kathleen M. Hooper

Number/Street/Apartment Number ▼

ASTM, 1916 Race Street

City/State/ZIP ▼

Philadelphia, PA 19103

Have you:

- Completed all necessary spaces?
- Signed your application in space 10?
- Enclosed check or money order for \$10 payable to Register of Copyrights?
- Enclosed your deposit material with the application and fee?

MAIL TO: Register of Copyrights, Library of Congress, Washington, D.C. 20559.

* 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.

5

6

See instructions before completing this space.

7

8

See instructions.

9

Be sure to give your daytime phone number.

10

11

EXHIBIT 103

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 3-614-549

October 1, 2019

A handwritten signature in black ink, reading "Kay A. Leahy".

United States Register of Copyrights and Director

FORM SE
UNITED STATES COPYRIGHT OFFICE

REGISTRATION NUMBER

11 3 614 549

EFFECTIVE DATE OF REGISTRATION
OCT 18 1993

Month Day Year

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

1

TITLE OF THIS SERIAL
1993 Annual Book of ASTM Standards: *Grassous Fuels; Coal and Coke*

Volume **0505** Number **05** Date on Copies **September** Frequency of Publication **Annual**
PREVIOUS OR ALTERNATIVE TITLES

2

NAME OF AUTHOR
American Society for Testing and Materials

DATES OF BIRTH AND DEATH
Year Born 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 **United States**
Domiciled in

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.

NATURE OF AUTHORSHIP Briefly describe nature of the material created by this author in which copyright is claimed.
 Collective Work Other: **Entire Text**

NOTE
Under the law, the "author" of a "work made for hire" is the employer or other person or organization for whom the work was prepared.

NAME OF AUTHOR

DATES OF BIRTH AND DEATH
Year Born 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

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.

NATURE OF AUTHORSHIP Briefly describe nature of the material created by this author in which copyright is claimed.
 Collective Work Other:

NAME OF AUTHOR

DATES OF BIRTH AND DEATH
Year Born 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

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.

NATURE OF AUTHORSHIP Briefly describe nature of the material created by this author in which copyright is claimed.
 Collective Work Other:

3

YEAR IN WHICH CREATION OF THIS ISSUE WAS COMPLETED
1993

DATE AND NATION OF FIRST PUBLICATION OF THIS PARTICULAR ISSUE
Month **August** Day **30** Year **1993**
U.S.A.

4

COPYRIGHT CLAIMANT 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
Philadelphia, PA 19103-1187

APPLICATION RECEIVED

OCT 18 1993

ONE DEPOSIT RECEIVED

TWO DEPOSITS RECEIVED

OCT 18 1993

REMITTANCE NUMBER AND DATE

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.

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
Page 1 of 2 pages

TX 3 614 549

EXAMINED BY KLO
CHECKED BY [Signature]
 CORRESPONDENCE
yes

FORM SE
FOR
COPYRIGHT
OFFICE
USE
ONLY

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 ▼ Year of Registration ▼
TX# 3 614 549 1992

DERIVATIVE WORK OR COMPILATION Complete both space 6a & 6b for a derivative work, complete only 6b for a compilation

a. Preexisting Material Identify any preexisting work or works that this work is based on or incorporates ▼
1992 Annual Book of ASTM Standards, Section 25, Volume 45.

b. 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 previous published text plus additional text.

—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 facsimile of a reading of that work; or (3) both

- Copies and Phonorecords
- Copies Only
- 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 ▼ Account Number ▼

CORRESPONDENCE Give name and address to which correspondence about this application should be sent Name: Address/Apt/City/State/Zip ▼

Robert L. Meltzer, ASTM
1916 Race Street
Philadelphia, PA 19103-1187
Area Code & Telephone Number ▶ 215-299-5431

CERTIFICATION I, the undersigned, hereby certify that I am the

- Check one ▶
- author
 - other copyright claimant
 - owner of exclusive right(s)
 - authorized agent of American Society for Testing and Materials
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.

Typed or printed name and date ▼ If this application gives a date of publication in space 3, do not sign and submit it before that date.

Robert L. Meltzer Date ▶ September 8, 1993

Handwritten signature (in) ▼
Robert L. Meltzer

MAIL CERTIFICATE TO

Certificate will be mailed in window envelope

Name ▼	Rathe Hooper, ASTM
Number/Street/Apartment Number ▼	1916 Race Street
City/State/ZIP ▼	Philadelphia, PA 19103-1187

- Complete all necessary copies
- Sign your application in space 10

1. Application form
2. Nonrefundable \$20 filing fee in check or money order payable to Register of Copyrights
3. Deposit material

Register of Copyrights
Library of Congress
Washington, D.C. 20540

* 17 U.S.C. § 508(b). 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.

EXHIBIT 104

CERTIFICATE OF REGISTRATION



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 United States of America

TX 4-394-571

EFFECTIVE DATE OF REGISTRATION 12 13 96

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

TITLE OF THIS SERIAL 1996 Annual Book of ASTM Standards: Textiles. Textiles (11): D3333-latest Volume 07 Number 02 Date on Copies November 1996 Frequency of Publication Annual

2 NAME OF AUTHOR American Society for Testing and Materials DATES OF BIRTH AND DEATH AUTHOR'S NATIONALITY OR DOMICILE United States WAS THIS AUTHOR'S CONTRIBUTION TO THE WORK

NOTE Under the law

086211779 NAME OF AUTHOR DATES OF BIRTH AND DEATH AUTHOR'S NATIONALITY OR DOMICILE WAS THIS AUTHOR'S CONTRIBUTION TO THE WORK

NAME OF AUTHOR DATES OF BIRTH AND DEATH AUTHOR'S NATIONALITY OR DOMICILE WAS THIS AUTHOR'S CONTRIBUTION TO THE WORK

3 YEAR IN WHICH CREATION OF THIS ISSUE WAS COMPLETED 1996 DATE AND NATION OF FIRST PUBLICATION OF THIS PARTICULAR ISSUE December 3 1996 U.S.A.

4 COPYRIGHT CLAIMANT(S) American Society for Testing & Materials 100 Barr Harbor Drive West Conshohocken, PA 19428-2959

DO NOT WRITE HERE OFFICE USE ONLY APPLICATION RECEIVED DEC 13 1996 ONE DEPOSIT RECEIVED TWO DEPOSITS RECEIVED DEC 13 1996 REMITTANCE NUMBER AND DATE

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.

EXAMINED BY

FORM SE

CHECKED BY

AWD

CORRESPONDENCE
Yes

FOR
COPYRIGHT
OFFICE
USE
ONLY

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PREVIOUS REGISTRATION Has registration for this issue, or for an earlier version of this particular issue, already been made in the Copyright Office?

5

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 ▼ Year of Registration ▼

TH# 4-223-732 1996

DERIVATIVE WORK OR COMPILATION Complete both space 6a & 6b for a derivative work; complete only 6b for a compilation.

6

a. Preexisting Material Identify any preexisting work or works that this work is based on or incorporates. ▼
1996 Annual Book of ASTM Standards, Section 07, Volume 07.

b. 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 previous published text plus additional text.

See instructions before completing this space

—space deleted—

7

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.

8

- a. Copies and Phonorecords
- b. Copies Only
- c. Phonorecords Only

See instructions

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 ▼ **American Society for Testing and Materials** Account Number ▼ # **DA078328**

9

CORRESPONDENCE Give name and address to which correspondence about this application should be sent. Name, Address, Apt City, State, Zip ▼

**Robert L. Meltzer, ASTM
100 Barr Harbor Drive
West Conshohocken, PA 19428-2959**

Area Code & Telephone Number ▶ **610-832-9632**

Be sure to give your daytime phone number

CERTIFICATION* I, the undersigned, hereby certify that I am the

Check one ▶

- author
- other copyright claimant
- owner of exclusive right(s) **American Society for Testing and Materials**
- authorized agent of **American Society for Testing and Materials**

10

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.

Name of author or other copyright claimant, or owner of exclusive right(s) ▲

Typed or printed name and date ▼ If this application gives a date of publication in space 3, do not sign and submit it before that date.

Robert L. Meltzer

date December 3, 1996

Handwritten signature (X) ▼

Robert L. Meltzer

MAIL CERTIFICATE TO

Certificate will be mailed in window envelope

Name ▼ Judy Helm, ASTM
Number Street Apartment Number ▼ 100 Barr Harbor Drive
City State ZIP ▼ West Conshohocken, PA 19428-2959

YOU MUST

- Complete all necessary spaces
- Sign your application in space 10

SEND ALL ELEMENTS IN THE SAME PACKAGE

1. Application form
2. Nonrefundable \$20 filing fee in check or money order payable to Register of Copyrights
3. Deposit material

MAIL TO
Register of Copyrights
Library of Congress
Washington, D.C. 20559

Copyright fees are adjusted at 5-year intervals, based on increases or decreases in the Consumer Price Index. The next adjustment is due in 1995. Contact the Copyright Office in January 1995 for the new fee schedule.

11

* 17 U.S.C. § 506(a). 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.

EXHIBIT 105

FORM SE
For a Serial
UNITED STATES COPYRIGHT OFFICE
REGISTRATION NUMBER

101885578



TX 4-787-691



EFFECTIVE DATE OF REGISTRATION

10 14 98
Month Day Year

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

TITLE OF THIS SERIAL

1

1998 Annual Book of ASTM Standards, Atmospheric Analysis; Occupational Health and Safety; Protective Clothing

Table with 4 columns: Volume, Number, Date on Copies, Frequency of Publication. Values: 11.03, 11, October 1998, Annual.

PREVIOUS OR ALTERNATIVE TITLES

2

NAME OF AUTHOR

a American Society for Testing and Materials

DATES OF BIRTH AND DEATH

Year Born Year Died

Was this contribution to the work a "work made for hire"?
Yes No

AUTHOR'S NATIONALITY OR DOMICILE

Name of Country
Citizen of
Domiciled in United States

WAS THIS AUTHOR'S CONTRIBUTION TO THE WORK

Anonymous? Pseudonymous? Yes No instructions.

NATURE OF AUTHORSHIP Briefly describe nature of the material created by this author in which copyright is claimed.

Collective Work Other: Entire Text

NOTE

Under the law, the "author" of a "work made for hire" is generally the employer, not the employee...

NAME OF AUTHOR

DATES OF BIRTH AND DEATH

Year Born Year Died

Was this contribution to the work a "work made for hire"?
Yes No

AUTHOR'S NATIONALITY OR DOMICILE

Name of Country
Citizen of
Domiciled in

WAS THIS AUTHOR'S CONTRIBUTION TO THE WORK

Anonymous? Pseudonymous? Yes No instructions.

NATURE OF AUTHORSHIP Briefly describe nature of the material created by this author in which copyright is claimed.

Collective Work Other:

NAME OF AUTHOR

DATES OF BIRTH AND DEATH

Year Born Year Died

Was this contribution to the work a "work made for hire"?
Yes No

AUTHOR'S NATIONALITY OR DOMICILE

Name of Country
Citizen of
Domiciled in

WAS THIS AUTHOR'S CONTRIBUTION TO THE WORK

Anonymous? Pseudonymous? Yes No instructions.

NATURE OF AUTHORSHIP Briefly describe nature of the material created by this author in which copyright is claimed.

Collective Work Other:

3

YEAR IN WHICH CREATION OF THIS ISSUE WAS COMPLETED

1998

This information must be given in all cases.

DATE AND NATION OF FIRST PUBLICATION OF THIS PARTICULAR ISSUE

Month: October Day: 1 Year: 1998
United States Nation

4

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 and 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.

APPLICATION RECEIVED OCT. 14, 1998
ONE DEPOSIT RECEIVED
TWO DEPOSITS RECEIVED OCT. 14, 1998
REMITTANCE NUMBER AND DATE

See instructions before completing this space

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 Page 1 of 2 pages

EXAMINED BY

FORM SE

CHECKED BY

CORRESPONDENCE
Yes

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COPYRIGHT
OFFICE
USE
ONLY

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 ▼ Year of Registration

5

DERIVATIVE WORK OR COMPILATION Complete both space 6a & 6b for a derivative work; complete only 6b for a compilation.

a. Preexisting Material Identify any preexisting work or works that this work is based on or incorporates. ▼

1997 Annual Book of ASTM Standards, Section 11, Volume 11.03

b. 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 previous published text plus additional text.

See instructions before completing this space.

6

---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.

- a. Copies and Phonorecords
- b. Copies Only
- c. Phonorecords Only

See instructions.

7

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 ▼

American Society for Testing and Materials

DA078328

CORRESPONDENCE Give name and address to which correspondence about this application should be sent.

Name/Address/Apt/City/State/ZIP

Kathe Hooper, American Society for Testing and Materials

100 Barr Harbor Drive

West Conshohocken, PA 19428-2959

Area Code & Telephone Number ▶ (610) 832-9634

Be sure to give your daytime phone number.

9

CERTIFICATION* I, the undersigned, hereby certify that I am the

- Check only one ▶
- author
 - other copyright claimant
 - owner of exclusive right(s)
 - authorized agent of American Society for Testing & 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.

Name of author or other copyright claimant, or owner of exclusive right(s) ▲

Typed or printed name and date ▼ If this application gives a date of publication in space 3, do not sign and submit it before that date.

Robert L. Meltzer

date ▶ 10-1-98

10

Handwritten signature (X) ▼

Robert L. Meltzer

MAIL
CERTIFICATE
TO

Name ▼
Kathe Hooper, ASTM

Number/Street/Apartment Number
100 Barr Harbor Drive

City/State/ZIP ▼
West Conshohocken, PA 19428-2959

Certificate will be mailed in window envelope

PREPARE
• Complete all necessary spaces
• Sign your application in space 10

REGISTER OF COPYRIGHTS
U.S. DEPARTMENT OF COMMERCE

1. Application form
2. Nonrefundable \$20 filing fee in check or money order payable to Register of Copyrights
3. Deposit material

Register of Copyrights
Library of Congress
Washington, D.C. 20559

The Copyright Office has the authority to adjust fees at 5-year intervals, based on changes in the Consumer Price Index. The next adjustment is due in 1998. Please contact the Copyright Office after July 1988 to determine the actual fee schedule.

11

*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.

EXHIBIT 106

CERTIFICATE OF REGISTRATION

FORM SE



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.

For a Serial UNITED STATES COPYRIGHT OFFICE

TX 5-202-199
 [Barcode]
WT-0005202199

Marybeth Peters

EFFECTIVE DATE OF REGISTRATION

11 13 00
 Month Day Year

OFFICIAL SEAL

REGISTER OF COPYRIGHTS

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

1

TITLE OF THIS SERIAL ▼
 2000 ANNUAL BOOK OF ASTM STANDARDS, ATMOSPHERIC ANALYSIS; OCCUPATIONAL Health and Safety; Protective Clothing

Volume ▼	Number ▼	Date on Copies ▼	Frequency of Publication ▼
11.03	11	October 2000	ANNUAL

PREVIOUS OR ALTERNATIVE TITLES ▼

2

a **NAME OF AUTHOR** ▼
 American Society for Testing and Materials

DATES OF BIRTH AND DEATH
 Year Born ▼ 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

WAS THIS AUTHOR'S CONTRIBUTION TO THE WORK
 Anonymouse? Yes No Pseudonymous? Yes No

NATURE OF AUTHORSHIP Briefly describe nature of material created by this author in which copyright is claimed. ▼
 Collective Work Other: Entire Text

NOTE

Under the law, the "author" of a "work made for hire" is generally the employer, not the employee (see instructions). For any part of this work that was "made for hire" check "Yes" in the space provided, give the employer (or other person for whom the work was prepared) as "Author" of that part, and leave the space for dates of birth and death blank.

b **NAME OF AUTHOR** ▼

DATES OF BIRTH AND DEATH
 Year Born ▼ 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 ▼

WAS THIS AUTHOR'S CONTRIBUTION TO THE WORK
 Anonymouse? Yes No Pseudonymous? Yes No

NATURE OF AUTHORSHIP Briefly describe nature of material created by this author in which copyright is claimed. ▼
 Collective Work Other:

c **NAME OF AUTHOR** ▼

DATES OF BIRTH AND DEATH
 Year Born ▼ 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 ▼

WAS THIS AUTHOR'S CONTRIBUTION TO THE WORK
 Anonymouse? Yes No Pseudonymous? Yes No

NATURE OF AUTHORSHIP Briefly describe nature of material created by this author in which copyright is claimed. ▼
 Collective Work Other:

3

a **YEAR IN WHICH CREATION OF THIS ISSUE WAS COMPLETED**
 2000

b **DATE AND NATION OF FIRST PUBLICATION OF THIS PARTICULAR ISSUE**
 Complete this information ONLY if this work has been published. Month: 10 Day: 6 Year: 2000 United States

4

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 and Materials
 100 Barr Harbor Drive
 West Conshohocken, PA 19428-2959

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

DO NOT WRITE HERE OFFICE USE ONLY

APPLICATION RECEIVED
 NOV 13 2000
 ONE DEPOSIT RECEIVED

TWO DEPOSITS RECEIVED
 NOV 13 2000
 FUNDS RECEIVED

MORE ON BACK ▶ • Complete all applicable spaces (numbers 5-9) on the reverse side of this page. • See detailed instructions. • Sign the form at line 8.

DO NOT WRITE HERE Page 1 of 2 pages

EXAMINED BY <i>Be</i>	FORM SE
CHECKED BY	
<input type="checkbox"/> CORRESPONDENCE	FOR
Yes	COPYRIGHT
	OFFICE
	USE
	ONLY

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

PREVIOUS REGISTRATION Has registration for this work, or for an earlier version of this work, 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 edition of a work 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 the work, as shown by space 6 on this application.
- If your answer is "Yes," give: Previous Registration Number ▼ Year of Registration ▼

5

DERIVATIVE WORK OR COMPILATION Complete both space 6a and 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. ▼

1999 Annual Book of ASTM Standards, Volume 11.8, Section 11

a

6

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 previous published text plus additional text.

b

See instructions before completing this space.

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.

American Society for Testing and Materials DA078328

a

7

CORRESPONDENCE Give name and address to which correspondence about this application should be sent. Name/Address/Apt/City/State/ZIP ▼

Kathe Hooper, American Society for Testing and Materials
100 Barr Harbor Drive
West Conshohocken, PA 19428-2959

b

Area code and daytime telephone number ▶ 610-832-9634 Fax number ▶ 610-832-9635
Email ▶ khooper@astm.org

CERTIFICATION I, the undersigned, hereby certify that I am the

- Check only one ▶
- author
 - other copyright claimant
 - owner of exclusive right(s)
 - authorized agent of American Society for Testing and Materials
- Name of author or other copyright claimant, or owner of exclusive right(s) ▲

8

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 and date ▼ If this application gives a date of publication in space 3, do not sign and submit it before that date.

Robert L. Meltzer

Date ▶ 10/27/00

Handwritten signature (X) ▼
X *Robert L. Meltzer*

Certificate will be mailed in window envelope to this address:

Name ▼	Kathe Hooper, ASTM
Number/Street/Apt ▼	100 Barr Harbor Drive
City/State/ZIP ▼	West Conshohocken, PA 19428-2959

- Complete all necessary spaces
- Sign your application in space 8

9

1. Application form
 2. Nonrefundable filing fee in check or money order payable to Register of Copyrights As of July 1, 1999,
 3. Deposit material the filing fee for Form SE is \$30.
 Library of Congress Copyright Office
 101 Independence Avenue, S.E.
 Washington, D.C. 20559-6000

*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 405, or in any written statement filed in connection with the application, shall be fined not more than \$2,500.
 June 1999—50,000
 WEB REV: June 1999
 PRINTED ON RECYCLED PAPER
 U.S. GOVERNMENT PRINTING OFFICE: 1999-454-879/60

EXHIBIT 107

CERTIFICATE OF REGISTRATION

FORM SE

UNIT
REGI

TX 5-369-432



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

EFFECTIVE DATE OF REGISTRATION

07 02 2001
Month Day Year

OFFICIAL SEAL REGISTER OF COPYRIGHTS CONTINUATION SHEET.

1 TITLE OF THIS SERIAL 2001 ANNUAL BOOK OF ASTM STANDARDS: WATER (11)

Volume 11.02 Number 11 Date on Copies MAY 2001 Frequency of Publication ANNUAL

PREVIOUS OR ALTERNATIVE TITLES

2 a NAME OF AUTHOR American Society for Testing and Materials

DATES OF BIRTH AND DEATH Year Born 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

WAS THIS AUTHOR'S CONTRIBUTION TO THE WORK Anonymously? Pseudonymously? Yes No Yes No

NATURE OF AUTHORSHIP Briefly describe nature of material created by this author in which copyright is claimed. Collective Work Other: Entire Test

NAME OF AUTHOR

DATES OF BIRTH AND DEATH Year Born 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

WAS THIS AUTHOR'S CONTRIBUTION TO THE WORK Anonymously? Pseudonymously? Yes No Yes No

NATURE OF AUTHORSHIP Briefly describe nature of material created by this author in which copyright is claimed. Collective Work Other:

NAME OF AUTHOR

DATES OF BIRTH AND DEATH Year Born 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

WAS THIS AUTHOR'S CONTRIBUTION TO THE WORK Anonymously? Pseudonymously? Yes No Yes No

NATURE OF AUTHORSHIP Briefly describe nature of material created by this author in which copyright is claimed. Collective Work Other:

3 a YEAR IN WHICH CREATION OF THIS ISSUE WAS COMPLETED 2001

DATE AND NATION OF FIRST PUBLICATION OF THIS PARTICULAR ISSUE Month MAY Day 18 Year 2001 United States

4 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 and Materials 100 Barr Barbor Drive West Conshohocken, PA 19428-2959

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

APPLICATION RECEIVED JUL 02 2001 ONE DEPOSIT RECEIVED TWO DEPOSITS RECEIVED JUL 02 2001 FUNDS RECEIVED

MORE ON BACK Complete all applicable spaces (numbers 5-9) on the reverse side of this page. See detailed instructions. Sign the form at line 8.

DO NOT WRITE HERE Page 1 of 2 pages

EXAMINED BY

FORM SE

CHECKED BY

lmo

CORRESPONDENCE
Yes

FOR
COPYRIGHT
OFFICE
USE
ONLY

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

PREVIOUS REGISTRATION Has registration for this work, or for an earlier version of this work, already been made in the Copyright Office?

Yes No If your answer is "Yes," why is another registration being sought? (Check appropriate box.)

This is the first published edition of a work previously registered in unpublished form.

This is the first application submitted by this author as copyright claimant.

This is a changed version of the work, as shown by space 6 on this application.

Your answer is "Yes," give: Previous Registration Number Year of Registration

5

DERIVATIVE WORK OR COMPILATION Complete both space 6a and 6b for a derivative work; complete only 6b for a compilation.
existing Material Identify any preexisting work or works that this work is based on or incorporates.

1000 Annual Book of ASTM Standards, Section // Volume // 02

a 6

See instructions before completing this space.

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 previous published text plus additional text.

b

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

American Society for Testing and Materials

DA078328

a 7

CORRESPONDENCE Give name and address to which correspondence about this application should be sent. Name/Address/Apt/City/State/ZIP

Kathe Hooper, American Society for Testing and Materials

100 Barr Harbor Drive

West Conshohocken, PA 19428-2959

area code and daytime telephone number 610-832-9634

Fax number

610-832-9635

email khooper@astm.org

b

CERTIFICATION I, the undersigned, hereby certify that I am the

Check only one

- author
- other copyright claimant
- owner of exclusive right(s)
- authorized agent of 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.

Name of author or other copyright claimant, or owner of exclusive right(s)

8

typed or printed name and date If this application gives a date of publication in space 3, do not sign and submit it before that date.

Robert L. Meltzer

Date 6/20/01

Handwritten signature (X) *Robert L. Meltzer*

Certificate will be mailed in window envelope to this address:

Name Kathe Hooper, ASTM

Number/Street/Apt

100 Barr Harbor Drive

City/State/ZIP

West Conshohocken, PA 19428-2959

- 1. Application form
- 2. Nonrefundable filing fee in check or money order payable to Register of Copyrights
- 3. Deposit material

Library of Congress
Copyright Office
101 Independence Avenue, S.E.
Washington, D.C. 20569-6000

9

As of July 1, 1999, the filing fee for Form SE is \$30.

17 U.S.C. § 606(e): Any person who knowingly makes a false representation of a material fact in the application for copyright registration provided for by section 408, or in any written statement filed in connection with the application, shall be fined not more than \$2,500.

EXHIBIT 108

CERTIFICATE OF REGISTRATION

FORM SE
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.

Marybeth Peters
REGISTER OF COPYRIGHTS
United States of America

REGISTRATION NUMBER
TX 4-143-803
EFFECTIVE DATE OF REGISTRATION
AUG 01 1995
Month Day Year

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

1
TITLE OF THIS SERIAL
1995 Annual Book of ASTM Standards: General methods and instrumentation
General test methods, nonmetallic; Chromatography; Durability of Nonmetallic Materials; Forensic Sciences; Laboratory Apparatus; Statistical Methods.
Volume **14** Number **02** Date on Copies **June 1995** Frequency of Publication **Annual**
PREVIOUS OR ALTERNATIVE TITLES

2
NAME OF AUTHOR
American Society for Testing and Materials
DATES OF BIRTH AND DEATH
Year Born 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 **United States**
Domiciled in **United States**
WAS THIS AUTHOR'S CONTRIBUTION TO THE WORK
Anonymous? Yes No
Pseudonymous? Yes No

NATURE OF AUTHORSHIP Briefly describe nature of the material created by this author in which copyright is claimed.
 Collective Work Other: **Entire Text**

NOTE
Under the law.

NAME OF AUTHOR
DATES OF BIRTH AND DEATH
Year Born 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
WAS THIS AUTHOR'S CONTRIBUTION TO THE WORK
Anonymous? Yes No
Pseudonymous? Yes No

NATURE OF AUTHORSHIP Briefly describe nature of the material created by this author in which copyright is claimed.
 Collective Work Other:

NAME OF AUTHOR
DATES OF BIRTH AND DEATH
Year Born 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
WAS THIS AUTHOR'S CONTRIBUTION TO THE WORK
Anonymous? Yes No
Pseudonymous? Yes No

NATURE OF AUTHORSHIP Briefly describe nature of the material created by this author in which copyright is claimed.
 Collective Work Other:

3
YEAR IN WHICH CREATION OF THIS ISSUE WAS COMPLETED **1995** This information must be given in all cases.
DATE AND NATION OF FIRST PUBLICATION OF THIS PARTICULAR ISSUE
Complete this information ONLY if this work has been published. Month **June** Day **23** Year **1995**
U.S.A. Nation

4
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
Philadelphia, PA 19103-1187

DO NOT WRITE HERE OFFICE USE ONLY
APPLICATION RECEIVED
AUG 01 1995
ONE DEPOSIT RECEIVED
TWO DEPOSITS RECEIVED
AUG 01 1995
REMITTANCE NUMBER AND DATE

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.

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
Page 1 of 2 pages

EXAMINED BY

CHECKED BY

[Handwritten initials]

FORM SE

CORRESPONDENCE
Yes

FOR
COPYRIGHT
OFFICE
USE
ONLY

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 ▼ **TX# 3-890-1075** Year of Registration ▼ **1994**

DERIVATIVE WORK OR COMPILATION Complete both space 6a & 6b for a derivative work, complete only 6b for a compilation

a. **Preexisting Material** Identify any preexisting work or works that this work is based on or incorporates. ▼
1994 Annual Book of ASTM Standards, Section 14, Volume 03.

b. **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 previous published text plus additional text.

—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
- Copies Only
- 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 ▼ **American Society of Testing and Materials** Account Number ▼ **#DA 07R328**

CORRESPONDENCE Give name and address to which correspondence about this application should be sent. Name Address Apt. City State Zip ▼

Robert L. Meltzer, ASTM
1916 Race Street
Philadelphia, PA 19103-1187
Area Code & Telephone Number ▶ **215-299-5431**

CERTIFICATION I, the undersigned, hereby certify that I am the

Check one ▶

- author
 - other copyright claimant
 - owner of exclusive right(s) **American Society**
 - authorized agent of **for Testing and Materials**
- 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.

Typed or printed name and date ▼ If this application gives a date of publication in space 3, do not sign and submit it before that date.

Robert L. Meltzer date **July 26, 1995**

Handwritten signature (X) ▼ *Robert L. Meltzer*

MAIL CERTIFICATE TO

Certificate will be mailed in window envelope

Name ▼	Kathe Hooper, ASTM
Number Street Apartment Number ▼	1916 Race Street
City State ZIP ▼	Philadelphia, PA 19103-1187

- Complete all necessary spaces
- Sign your application in space 10

1. Application form
2. Nonrefundable \$20 filing fee in check or money order payable to Register of Copyrights
3. Deposit material

Register of Copyrights
Library of Congress
Washington, D.C. 20559

* 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.

EXHIBIT 109

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 988-070

October 2, 2019

A handwritten signature in blue ink, reading "Kay A. Leahy".

United States Register of Copyrights and Director

FORM TX

UNITED STATES COPYRIGHT OFFICE

REGISTRATION NUMBER	
TX	988-070
TXU	
EFFECTIVE DATE OF REGISTRATION	
10 (Month)	6 (Day)
82 (Year)	

DO NOT WRITE ABOVE THIS LINE. IF YOU NEED MORE SPACE, USE CONTINUATION SHEET (FORM TX/CON)

1 Title	TITLE OF THIS WORK: 1982 Annual Book of ASTM Standards Part 10: Metals-Physical, Mechanical, Corrosion Testing	PREVIOUS OR ALTERNATIVE TITLES:
	If a periodical or serial give Vol No Issue Date	
PUBLICATION AS A CONTRIBUTION: (If this work was published as a contribution to a periodical, serial, or collection give information about the collective work in which the contribution appeared)		
Title of Collective Work		
Vol No Date Pages		

2 Author(s)	IMPORTANT: Under the law, the "author" of a "work made for hire" is generally the employer, not the employee (see instructions). If any part of this work was "made for hire" check "Yes" in the space provided, give the employer (or other person for whom the work was prepared) as "Author" of that part, and leave the space for dates blank.		
	1	NAME OF AUTHOR: American Society for Testing and Materials	DATES OF BIRTH AND DEATH:
		Was this author's contribution to the work a "work made for hire"? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Born (Year) Died (Year)
		AUTHOR'S NATIONALITY OR DOMICILE: Citizen of (Name of Country) } or { Domiciled in U.S.A. (Name of Country)	WAS THIS AUTHOR'S CONTRIBUTION TO THE WORK:
	AUTHOR OF: (Briefly describe nature of this author's contribution) Entire Text		Anonymous? Yes No Pseudonymous? Yes No If the answer to either of these questions is "Yes," see detailed instructions attached.
	2	NAME OF AUTHOR:	DATES OF BIRTH AND DEATH:
		Was this author's contribution to the work a "work made for hire"? Yes <input type="checkbox"/> No <input type="checkbox"/>	Born (Year) Died (Year)
		AUTHOR'S NATIONALITY OR DOMICILE: Citizen of (Name of Country) } or { Domiciled in (Name of Country)	WAS THIS AUTHOR'S CONTRIBUTION TO THE WORK:
	AUTHOR OF: (Briefly describe nature of this author's contribution)		Anonymous? Yes No Pseudonymous? Yes No If the answer to either of these questions is "Yes," see detailed instructions attached.
3	NAME OF AUTHOR:	DATES OF BIRTH AND DEATH:	
	Was this author's contribution to the work a "work made for hire"? Yes <input type="checkbox"/> No <input type="checkbox"/>	Born (Year) Died (Year)	
	AUTHOR'S NATIONALITY OR DOMICILE: Citizen of (Name of Country) } or { Domiciled in (Name of Country)	WAS THIS AUTHOR'S CONTRIBUTION TO THE WORK:	
AUTHOR OF: (Briefly describe nature of this author's contribution)		Anonymous? Yes No Pseudonymous? Yes No If the answer to either of these questions is "Yes," see detailed instructions attached.	

3 Creation and Publication	YEAR IN WHICH CREATION OF THIS WORK WAS COMPLETED: Year 1982 <small>(This information must be given in all cases.)</small>	DATE AND NATION OF FIRST PUBLICATION:
		Date August 10, 1982 <small>(Month) (Day) (Year)</small> Nation United States <small>(Name of Country)</small> <small>(Complete this block ONLY if this work has been published.)</small>

4 Claimant(s)	NAME(S) AND ADDRESS(ES) OF COPYRIGHT CLAIMANT(S): American Society for Testing and Materials 1916 Race Street Philadelphia, 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.)

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

TX 988-070	EXAMINED BY: <i>JE</i>	APPLICATION RECEIVED: 06 OCT 1982	FOR COPYRIGHT OFFICE USE ONLY
	CHECKED BY: <i>JE</i>	DEPOSIT RECEIVED: 06 OCT 1982 06 OCT 1982	
	CORRESPONDENCE <input type="checkbox"/> Yes	REMITTANCE NUMBER AND DATE: 04691 OCT 6 82	
DEPOSIT ACCOUNT FUNDS USED <input type="checkbox"/>			

DO NOT WRITE ABOVE THIS LINE. IF YOU NEED ADDITIONAL SPACE, USE CONTINUATION SHEET (FORM TX/CON)

PREVIOUS REGISTRATION:

- Has registration for this work, or for an earlier version of this work, already been made in the Copyright Office? Yes No
- If your answer is "Yes," why is another registration being sought? (Check appropriate box)
 - This is the first published edition of a work previously registered in unpublished form
 - 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 814-684 Year of Registration 1982

5
Previous Registration

COMPILATION OR DERIVATIVE WORK: (See instructions)

PREEXISTING MATERIAL (Identify any preexisting work or works that this work is based on or incorporates)

{ 1981 Annual Book of ASTM Standards Part 10

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

6
Compilation or Derivative Work

MANUFACTURERS AND LOCATIONS: (If this is a published work consisting preponderantly of nondramatic literary material in English, the law may 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 MANUFACTURERS Waverly Press, Inc.	PLACES OF MANUFACTURE Easton, MD
---	-------------------------------------

7
Manufacturing

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- 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

a Copies and phonorecords b Copies Only c Phonorecords Only

8
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:	CORRESPONDENCE: (Give name and address to which correspondence about this application should be sent.) Name: Robert L. Meltzer, ASTM Address: 1916 Race Street Philadelphia, PA 19103 (City) (State) (ZIP)	9 Fee and Correspondence
--	--	------------------------------------

CERTIFICATION: * I, the undersigned, hereby certify that I am the: (Check one) American Society for Testing and Materials

author other copyright claimant owner of exclusive right(s) authorized agent of

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) *Robert L. Meltzer*
Typed or printed name: Robert L. Meltzer Date: 9/15/82

10
Certification (Application must be signed)

American Society for Testing and Materials (Name) 1916 Race Street, 2nd floor, RLM (Number, Street and Apartment Number) Philadelphia, PA 19103 (City) (State) (ZIP code)	MAIL CERTIFICATE TO (Certificate will be mailed in window envelope)	11 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
 U.S. GOVERNMENT PRINTING OFFICE: 1980: 341-278/1