

# IEEE REFERENCE GUIDE

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## I. CITING REFERENCES

### A. References in Text

References need not be cited in the text. When they are, they appear on the line, in square brackets, inside the punctuation. Grammatically, they may be treated as if they were footnote numbers, e.g.:

as shown by Brown [4], [5]; as mentioned earlier [2], [4]–[7], [9]; Smith [4] and Brown and Jones [5]; Wood *et al.* [7]

**NOTE:** Use *et al.* when three or more names are given for a reference cited in the text.

or as nouns:

as demonstrated in [3]; according to [4] and [6]–[9].

### B. References Within a Reference

Check the reference list for *ibid.* or *op. cit.* These refer to a previous reference and should be eliminated from the reference section. In text, repeat the earlier reference number and renumber the reference section accordingly. If the *ibid.* gives a new page number, or other information, use the following forms:

[3, Th. 1]; [3, Lemma 2]; [3, pp. 5–10]; [3, eq. (2)]; [3, Fig. 1]; [3, Appendix I]; [3, Sec. 4.5]; [3, Ch. 2, pp. 5–10]; [3, Algorithm 5].

**NOTE:** Editing of references may entail careful renumbering of references, as well as the citations in text. Always query the author when renumbering references and text citations.

## II. STYLE

Reference numbers are set flush left and form a column of their own, hanging out beyond the body of the reference. The reference numbers are on the line, enclosed in square brackets. In all references, the given name of the author or editor is abbreviated to the initial only and precedes the last name. Use commas around Jr., Sr., and III in names. IEEE publications must list names of all authors, up to six names. If there are more than six names listed, use the primary author's name followed by *et al.* For non-IEEE publications, *et al.* may be used if names are not provided. All references, except those ending with URLs, will end with a period, including those with a DOI. However, if a reference contains both a DOI or accessed date, as well as a URL, place the DOI after the URL and end with a period. Note that when citing IEEE Transactions, if the issue number or month is not available, research IEEEExplore to update the information. For any reference that cites two months for the same issue, the two months should be separated by a slash (e.g., Jul./Aug.), followed by the year of publication. References may not include all information; please obtain and include relevant information. Do not combine references. There must be only one reference with each number. If there is a URL included with the print reference, it can be included at the end of the reference (see style for online references).

### A. Books

#### Book

*Basic Format:*

- J. K. Author, "Title of chapter in the book," in *Title of His Published Book*, xth ed. City of Publisher, (only U.S. State), Country: Abbrev. of Publisher, year, ch. x, sec. x, pp. xxx–xxx.

*Examples:*

- B. Klaus and P. Horn, *Robot Vision*. Cambridge, MA, USA: MIT Press, 1986.
- L. Stein, “Random patterns,” in *Computers and You*, J. S. Brake, Ed. New York, NY, USA: Wiley, 1994, pp. 55–70.
- R. L. Myer, “Parametric oscillators and nonlinear materials,” in *Nonlinear Optics*, vol. 4, P. G. Harper and B. S. Wherret, Eds. San Francisco, CA, USA: Academic, 1977, pp. 47–160.
- M. Abramowitz and I. A. Stegun, Eds., *Handbook of Mathematical Functions* (Applied Mathematics Series 55). Washington, DC, USA: NBS, 1964, pp. 32–33.
- E. F. Moore, “Gedanken-experiments on sequential machines,” in *Automata Studies* (Ann. of Math. Studies, no. 1), C. E. Shannon and J. McCarthy, Eds. Princeton, NJ, USA: Princeton Univ. Press, 1965, pp. 129–153.
- Westinghouse Electric Corporation (Staff of Technology and Science, Aerospace Div.), *Integrated Electronic Systems*. Englewood Cliffs, NJ, USA: Prentice-Hall, 1970.
- M. Gorkii, “Optimal design,” *Dokl. Akad. Nauk SSSR*, vol. 12, pp. 111–122, 1961 (Transl.: in L. Pontryagin, Ed., *The Mathematical Theory of Optimal Processes*. New York, NY, USA: Interscience, 1962, ch. 2, sec. 3, pp. 127–135).
- A. Histace, “Image restoration—Recent advances and applications,” in *Super-Resolution Restoration and Image Reconstruction for Passive Millimeter Wave Imaging*. Rijeka, Croatia: InTech, 2012, pp. 25–45.

### Books, Monographs (Online)

#### Basic Format:

- J. K. Author, “Title of chapter in the book,” in *Title of Published Book*, xth ed. City of Publisher, State, Country: Abbrev. of Publisher, year, ch. x, sec. x, pp. xxx–xxx. [Online]. Available: <http://www.web.com>

#### Examples:

- G. O. Young, “Synthetic structure of industrial plastics,” in *Plastics*, vol. 3, *Polymers of Hexadromicon*, J. Peters, Ed., 2nd ed. New York, NY, USA: McGraw-Hill, 1964, pp. 15–64. [Online]. Available: <http://www.bookref.com>.
- *The Terahertz Wave eBook*. ZOmega Terahertz Corp., 2014. [Online]. Available: [http://dl.z-thz.com/eBook/zomega\\_ebook\\_pdf\\_1206\\_sr.pdf](http://dl.z-thz.com/eBook/zomega_ebook_pdf_1206_sr.pdf). Accessed: May 19, 2014.
- P. B. Kurland and R. Lerner, Eds., *The Founders’ Constitution*. Chicago, IL, USA: Univ. of Chicago Press, 1987. Accessed: Feb. 28, 2010. [Online]. Available: <http://press-pubs.uchicago.edu/founders/>

### Book Translated

#### Basic Format:

- J. K. Author, “Title of chapter in the book,” in *Title of Published Book*, X. Editor, Ed., xth ed. City of Publisher, State (only U.S.), Country: Abbrev. of Publisher (in Language), year, ch. x, sec. x, pp. xxx–xxx.

#### Examples:

- K. Ichiro, *Thai Economy and Railway 1885–1935*, Tokyo: Nihon Keizai Hyoronsha (in Japanese), 2000.
- M. Gorkii, “Optimal design,” *Dokl. Akad. Nauk SSSR*, vol. 12, pp. 111–122, 1961 (Transl.: in L. Pontryagin, Ed., *The Mathematical Theory of Optimal Processes*. New York, NY, USA: Interscience, 1962, ch. 2, sec. 3, pp. 127–135).

### Book With Chapter Title

#### Basic Format:

- J. K. Author, “Title of chapter in the book,” in *Title of Published Book*, X. Editor, Ed., City of Publisher, State (only U.S.), Country: Abbrev. of Publisher, year, ch. x, sec. x, pp. xxx–xxx.

#### Examples:

- T. Ogura, “Electronic government and surveillance-oriented society,” in *Theorizing Surveillance: The Panopticon and Beyond*. Cullompton, U.K.: Willan, 2006, ch. 13, pp. 270–295.
- L. Li, J. Yang, and C. Li, “Super-resolution restoration and image reconstruction for passive millimeter wave imaging,” in *Image Restoration—Recent Advances and Applications*, A. Histace, Ed., Rijeka, Croatia: InTech, 2012, pp. 25–45.

**Book With Editor(s)***Basic Format:*

- J. K. Author, “Title of chapter in the book,” in *Title of Published Book*, X. Editor, Ed., City of Publisher, State (only U.S.), Country: Abbrev. of Publisher, year, pp. xxx–xxx.
- X. Editor, Ed. *Title of Published Book*. City of Publisher, State (only U.S.), Country: Abbrev. of Publisher, year.

*Examples:*

- L. Stein, “Random patterns,” in *Computers and You*, J. S. Brake, Ed., New York, NY, USA: Wiley, 1994, pp. 55–70.
- C. Bennett, “What happens when you book an airline ticket? The collection and processing of passenger data post-9/11,” in *Global Surveillance and Policing: Borders, Security, Identity*, E. Zureik and M. Salter, Eds., Cullompton, U.K.: Willan, 2005, pp. 113–138.
- W. R. Leonard and M. H. Crawford, Eds. *Human Biology of Pastoral Populations*. New York, NY, USA: Cambridge Univ. Press, 2002.

**Book With Series Title, Volume Title, and Edition***Basic Format:*

- J. K. Author, “Title of chapter in the book,” in *Title of His Published Book*, X. Editor, Ed., xth ed. City of Publisher, State (only U.S.), Country: Abbrev. of Publisher, year, ch. x, sec. x, pp. xxx–xxx.

*Examples:*

- A. Taflove, *Computational Electrodynamics: The Finite-Difference Time-Domain Method* in *Computational Electrodynamics II*, vol. 3, 2nd ed. Norwood, MA, USA: Artech House, 1996.
- R. L. Myer, “Parametric oscillators and nonlinear materials,” in *Nonlinear Optics*, vol. 4, P. G. Harper and B. S. Wherret, Eds., San Francisco, CA, USA: Academic, 1977, pp. 47–160.
- M. Abramowitz and I. A. Stegun, Eds., *Handbook of Mathematical Functions* (Applied Mathematics Series 55). Washington, DC, USA: NBS, 1964, pp. 32–33.
- E. F. Moore, “Gedanken-experiments on sequential machines,” in *Automata Studies* (Ann. of Math. Studies, no. 1), C. E. Shannon and J. McCarthy, Eds., Princeton, NJ, USA: Princeton Univ. Press, 1965, pp. 129–153.

**B. Conferences and Conference Proceedings**

The general form for citing conference proceedings is to list the author and title of the paper, followed by the name (and location, if given) of the conference *in italics* using standard abbreviations.

|               |         |                  |             |
|---------------|---------|------------------|-------------|
| Annals        | Ann.    | Proceedings      | Proc.       |
| Annual        | Annu.   | Record           | Rec.        |
| Colloquium    | Colloq. | Symposium        | Symp.       |
| Conference    | Conf.   | Technical Digest | Tech. Dig.  |
| Congress      | Congr.  | Technical Paper  | Tech. Paper |
| Convention    | Conv.   | Workshop         | Workshop    |
| Digest        | Dig.    | First            | 1st         |
| Exposition    | Expo.   | Second           | 2nd         |
| International | Int.    | Third            | 3rd         |
| Meeting       | Meeting | Fourth/nth...    | 4th/nth...  |
| National      | Nat.    |                  |             |

Write out all the remaining words, but omit most articles and prepositions like “of the” and “on.” That is, *Proceedings of the 1996 Robotics and Automation Conference* becomes *Proc. 1996 Robotics and Automation Conf.*

**NOTE:** All published conference or proceedings papers have page numbers.

### Conference Paper (Paper Presented at a Conference)

#### Basic Format:

- J. K. Author, “Title of paper,” presented at the Abbreviated Name of Conf., City of Conf., Abbrev. State, Country, Month and day(s), year, Paper number.

#### Examples:

- D. Caratelli, M. C. Viganó, G. Toso, and P. Angeletti, “Analytical placement technique for sparse arrays,” presented at the 32nd ESA Antenna Workshop, Noordwijk, The Netherlands, Oct. 5–8, 2010.
- J. G. Kreifeldt, “An analysis of surface-detected EMG as an amplitude-modulated noise,” presented at the 1989 Int. Conf. Medicine and Biological Engineering, Chicago, IL, USA, Nov. 9–12, 1989.
- G. W. Juette and L. E. Zeffanella, “Radio noise currents on short sections on bundle conductors,” presented at the IEEE Summer Power Meeting, Dallas, TX, USA, Jun. 22–27, 1990, Paper 90 SM 690-0 PWRs.
- J. Arrillaga and B. Giessner, “Limitation of short-circuit levels by means of HVDC links,” presented at the IEEE Summer Power Meeting, Los Angeles, CA, USA, Jul. 12–17, 1990, Paper 70 CP 637.

### Conference Proceedings in Print (Paper Presented at a Conference)

The general form for citing conference proceedings is to list the author and title of the paper, followed by the name of the conference *in italics* using standard abbreviations. Write out all the remaining words, but omit most articles and prepositions like “of the” and “on.” That is, *Proceedings of the 1996 Robotics and Automation Conference* becomes *Proc. 1996 Robot. Automat. Conf.* If an ordinal number is in the conference name, use the numerical form instead of spelling it out (e.g., “1st” instead of “First”). Include the location if given. For U.S. locations, “USA” must be included after city and state.

#### Basic Format:

- J. K. Author, “Title of paper,” in *Abbreviated Name of Conf.*, (location of conference is optional), (Month and day(s) if provided) year, pp. xxx-xxx.

#### Examples:

- A. Amador-Perez and R. A. Rodriguez-Solis, “Analysis of a CPW-fed annular slot ring antenna using DOE,” in *Proc. IEEE Antennas Propag. Soc. Int. Symp.*, Jul. 2006, pp. 4301–4304.
- G. R. Faulhaber, “Design of service systems with priority reservation,” in *Conf. Rec. 1995 IEEE Int. Conf. Commun.*, pp. 3–8. \*\*\* *If the year is given in the conference title, it may be omitted from the end of the reference as shown here.* \*\*\*
- S. P. Bingulac, “On the compatibility of adaptive controllers,” in *Proc. 4th Annu. Allerton Conf. Circuit Syst. Theory*, New York, NY, USA, 1994, pp. 8–16.
- W. D. Doyle, “Magnetization reversal in films with biaxial anisotropy,” in *1987 Proc. INTERMAG Conf.*, pp. 2.2-1–2.2-6.
- C. T. Meadow and D. W. Waugh, “Computer assisted interrogation,” in *1991 Fall Joint Computer Conf., Proc. AFIPS Conf.*, vol. 29. Washington, DC, USA: Spartan, 1991, pp. 381–394.
- P. C. Parks, “Lyapunov redesign of model reference adaptive control systems,” in *1993 Joint Automatic Control Conf., Preprints*, pp. 485–491.
- T. S. Hsia, “System identification,” in *IEDM Tech. Dig.*, 1993, vol. 2, no. 8, pp. 6–13.

### Conference Proceedings With DOI

#### Basic Format:

- J. K. Author, “Title of paper,” in *Abbreviated Name of Conf.*, (location of conference is optional), year, pp. xxx–xxx, doi: xxx.

#### Examples:

- G. Veruggio, “The EURON roboethics roadmap,” in *Proc. Humanoids '06: 6th IEEE-RAS Int. Conf. Humanoid Robots*, 2006, pp. 612–617, doi: 10.1109/ICHR.2006.321337.
- J. Zhao, G. Sun, G. H. Loh, and Y. Xie, “Energy-efficient GPU design with reconfigurable in-package graphics

memory,” in *Proc. ACM/IEEE Int. Symp. Low Power Electron. Design (ISLPED)*, Jul. 2012, pp. 403–408, doi: 10.1145/2333660.2333752.

### Conference Proceedings With Editors

#### *Basic Format:*

- J. K. Author, “Title of paper,” in *Abbreviated Name of Conf.*, X. Editor, Ed. (location of conference is optional), year, pp. xxx-xxx.

#### *Examples:*

- A. Amador-Perez and R. A. Rodriguez-Solis, “Analysis of a CPW-fed annular slot ring antenna using DOE,” in *Proc. IEEE Antennas Propag. Soc. Int. Symp.*, A. Amador-Perez and R. A. Rodriguez-Solis, Eds. Jul. 2006, pp. 4301–4304.
- D. B. Armstrong, G. J. Fogarty, and D. Dingsdag, “Scales measuring characteristics of small business information systems,” in *Proc. Res., Relevance Rigour: Coming of Age: 18th Australasian Conf. Inf. Syst.*, W-G. Tan, Ed. 2007, pp. 163–171.
- P. Funes, B. Orme, and E. Bonabeau, “Evolving emergent group behaviors for simple human agents,” in *Proc. 7th Eur. Conf. Artif. Life*, P. Dittrich and J. T. Kim, Eds. Sep. 2003, pp. 76–89.

### Conference Proceedings With Location

#### *Basic Format:*

- J. K. Author, “Title of paper,” in *Abbreviated Name of Conf.*, City, State, Country, year, pp. xxx-xxx.

#### *Examples:*

- L. S. Carmichael, N. Ghani, P. K. Rajan, K. O’Donoghue, and R. Holt, “Characterization and comparison of modern layer-2 Ethernet survivability protocols,” in *Proc. 37th Southeastern Symp. Syst. Theory (SSST 2005)*, Tuskegee, AL, USA, Mar. 20–22, 2005, pp. 124–129.
- D. Sarkar and K. V. Srivastava, “SRR-loaded antipodal Vivaldi antenna for UWB applications with tunable notch function,” in *Proc. Int. Symp. Electromagn. Theory*, Hiroshima, Japan, 2013, pp. 466–469.

### Conference Proceedings With Series Title, Volume Title, and Edition

#### *Basic Format:*

- J. K. Author, “Title of paper,” in *Abbreviated Name of Conf.* in Volume Title, in Series Title, ed., year, pp. xxx-xxx.

#### *Example:*

- A. Amador-Perez and R. A. Rodriguez-Solis, “Analysis of a CPW-fed annular slot ring antenna using DOE,” in *Proc. IEEE Antennas Propag. Soc. Int. Symp.*, in Slot Ring Antennas II, vol. 3, 2nd ed., Jul. 2006, pp. 4301–4304.

### Conference Paper Online

#### *Basic Format:*

- J. K. Author. (Date). Title. Presented at Abbreviated Conf. title. [Type of Medium]. Available: site/path/file

#### *Examples:*

- Process Software Corp., Framingham, MA, USA. Intranets: Internet technologies deployed behind the firewall for corporate productivity. Presented at INET’96 Annu. Meeting. [Online]. Available: <http://www.process.com/Intranets/wp2.htm>
- J. A. Taylor. (Nov. 2006). Assessment: A tool for development and engagement in the first year of university study. Presented at Engaging Students: 9th Pacific Rim in Higher Education (FYHE) Conf., Griffith, Australia. [Online]. Available: [http://www.fyhe.com.au/past\\_papers/2006/Papers/Taylor.pdf](http://www.fyhe.com.au/past_papers/2006/Papers/Taylor.pdf)
- V. Chandrasekaran, S. Sanghavi, P. A. Parrilo, and A. S. Willsky. (2009). Sparse and low-rank matrix decompositions. Presented at IFAC 2009. [Online]. Available: <http://www.sciencedirect.com/science/article/pii/S1474667016388632>

## Conference Proceedings Online

### *Basic Format:*

- J. K. Author, “Title of paper,” in *Abbreviated Name of Conf.*, (location of conference is optional), year, pp. xxx-xxx. [Online]. Available: <http://www.url.com>

### *Examples:*

- T. Schubert, “Real challenges and solutions for validating system-on-chip high level formal verification of next-generation microprocessors,” in *Proc. 40th Design Automation Conf. (DAC’03)*, Jun. 2–6, 2003. [Online]. Available: <http://www.computer.org/csdl/proceedings/dac/2003/2394/00/2394001-abs.html>
- J. Yanamadala *et al.*, “Segmentation of the visible human project (VHP) female cryosection images within MATLAB environment,” in *Proc. 23rd Int. Meshing Roundtable*, London, U.K., Oct. 2014. [Online]. Available: <http://www.imr.sandia.gov/papers/imr23.htm>

## C. Course

### *Basic Format:*

Name of University. (Year). Title of course. [Online]. Available: URL

### *Example:*

- Argosy University Online. (2012). Information literacy and communication. [Online]. Available: <http://www.myeclassonline.com>

## Coursepack

### *Basic Format:*

- J. K. Instructor. Title of coursepack. (Semester). Title of course. University/Publisher location: University/Publisher name.

### *Example:*

- Q. Oden. Mud and Bones – Geology Coursepack. (2014, Winter). GEOG 042. Cranbrook, Canada: College of the Rockies

## D. Datasets

The essential components of a citation to a dataset are the following: Author names of each individual or organizational entity responsible for the creation of the dataset; the complete title of the dataset, including the edition or version number, if applicable; the date published or disseminated [year and full date (if available)]; publisher and/or distributor; and electronic location or identifier (URL or DOI if applicable). Append the date retrieved if the title and locator are not specific to the exact instance of the data you used.

### *Basic Format:*

- Author, “Title.” (Date, Year). Distributed by Publisher/Distributor. <http://url.com> (or if DOI is used, end with a period)

### *Example:*

- S. Ansolabehere, M. Palmer, and A. Lee. “Precinct-level election data. V1.” January 20, 2014. Distributed by Harvard Election Data Archive. <http://hdl.handle.net/1902.1/21919> UNF:5:5C9UfGjdLy2ONVPtgr45qA==

## Online Dataset Reference Using a DOI

### *Basic Format:*

- Title, Source, Date, doi: xxx.



*Example:*

- *Treatment episode dataset: Discharges (TEDS-D): Concatenated, 2006 to 2009*, U.S. Department of Health and Human Services, Substance Abuse and Mental Health Services Administration, Office of Applied Studies, Aug. 2013, doi: 10.3886/ICPSR30122.v2.

#### Online Dataset Reference Using a DOI Resolver

*Basic Format:*

- Title, Source, Date, doi: URL.

*Example:*

- *Treatment episode dataset: Discharges (TEDS-D): Concatenated, 2006 to 2009*, U.S. Department of Health and Human Services, Substance Abuse and Mental Health Services Administration, Office of Applied Studies, Aug. 2013, doi: <http://dx.doi.org/10.3886/ICPSR30122.v2>.

#### Online Dataset Reference Using a Website Address

*Basic Format:*

- Title, Source, Date. [Online]. Available: <http://www.url.com>

*Example:*

- *Treatment episode dataset: Discharges (TEDS-D): Concatenated, 2006 to 2009*, U.S. Department of Health and Human Services, Substance Abuse and Mental Health Services Administration, Office of Applied Studies, Aug. 2013. [Online]. Available: <http://www.icpsr.umich.edu/icpsrweb/SAMHDA/studies/30122/version/2>

## E. Handbooks

*Basic Format:*

- *Name of Manual/Handbook*, x ed., Abbrev. Name of Co., City of Co., Abbrev. State, year, pp. xxx-xxx.

*Examples:*

- *Transmission Systems for Communications*, 3rd ed., Western Electric Co., Winston-Salem, NC, USA, 1985, pp. 44–60.
- *Motorola Semiconductor Data Manual*, Motorola Semiconductor Products Inc., Phoenix, AZ, USA, 1989.
- *RCA Receiving Tube Manual*, Radio Corp. of America, Electronic Components and Devices, Harrison, NJ, Tech. Ser. RC-23, 1992.

## F. Lectures

#### Lecture Notes

*Basic Format:*

- J. K. Author. (Year). Title of lecture [Type of Medium]. Available: URL

*Examples:*

- J. Barney. (2011). Documenting literature [PowerPoint slides]. Available: <http://moodle.cotr/english/gill>
- Z. Yardish. Tumbling past data [Online]. Available: <http://www.statistics.cotr.ca/classes/statistics/Yardish/index.html>

#### Lecture Online

*Basic Format:*

- University name. (year). Title of lecture. [Type of Medium]. Available: URL

*Example:*

- Argosy University Online. (2012). Information literacy and communication: Module 2 filing and organization. [Online]. Available: <http://www.myclassonline.com>

## G. Manuals/Software

*Basic Format:*

- J. K. Author (or Abbrev. Name of Co., City of Co. Abbrev. State, Country). *Name of Manual/Handbook*, x ed. (year). Accessed: Date. [Online]. Available: <http://www.url.com>

*Examples:*

- L. Breimann. *Manual on Setting Up, Using, and Understanding Random Forests v4.0*. (2003). Accessed: Apr. 16, 2014. [Online]. Available: [http://oz.berkeley.edu/users/breiman/Using\\_random\\_forests\\_v4.0.pdf](http://oz.berkeley.edu/users/breiman/Using_random_forests_v4.0.pdf)
- M. Kuhn. *The Caret Package*. (2012). [Online]. Available: <http://cranr-project.org/web/packages/caret/caret.pdf>
- Antcom, Torrance, CA, USA. *Antenna Products*. (2011). Accessed: Feb. 12, 2014. [Online]. Available: <http://www.antcom.com/documents/catalogs/L1L2GPSAntennas.pdf>

### Manual (Print)

*Basic Format:*

- *Name of Manual/Handbook*, x ed., Abbrev. Name of Co., City of Co., Abbrev. State, Country, year, pp. xxx–xxx.

*Examples:*

- *Transmission Systems for Communications*, 3rd ed., Western Electric Co., Winston-Salem, NC, USA, 1985, pp. 44–60.
- *Motorola Semiconductor Data Manual*, Motorola Semiconductor Products Inc., Phoenix, AZ, USA, 1989.
- *RCA Receiving Tube Manual*, Radio Corp. of America, Electronic Components and Devices, Harrison, NJ, USA, Tech. Ser. RC23, 1992.
- *Microsoft Office 97 Visual Basic Programmer's Guide*, *Microsoft Professional Editions Series*, Microsoft, Redmond, WA, USA, 1997.

### Manual (Online)

*Basic Format:*

- J. K. Author (or Abbrev. Name of Co., City of Co. Abbrev. State, Country). *Name of Manual/Handbook*, x ed. (year). Accessed: Date. [Online]. Available: <http://www.url.com>

*Examples:*

- L. Breimann. *Manual on Setting Up, Using, and Understanding Random Forests v4.0*. (2003). Accessed: Apr. 16, 2014. [Online]. Available: [http://oz.berkeley.edu/users/breiman/Using\\_random\\_forests\\_v4.0.pdf](http://oz.berkeley.edu/users/breiman/Using_random_forests_v4.0.pdf)
- M. Kuhn. *The Caret Package*. (2012). [Online]. Available: <http://cranr-project.org/web/packages/caret/caret.pdf>

### Software

*Basic Format:*

- *Title of Software*. (version or year), Publisher Name. Accessed: Date (when applicable). [Type of Medium]. Available: site/path/file

*Examples:*

- *Antenna Products*. (2011). Antcom. Accessed: Feb. 12, 2014. [Online]. Available: <http://www.antcom.com/documents/catalogs/L1L2GPSAntennas.pdf>
- *Ngspice*. (2011). [Online]. Available: <http://ngspice.sourceforge.net>
- *MSDN Library Visual Studio 6.0*. (2001). Microsoft.

## H. Online Video (e.g., YouTube)

Format: Video Owner/Creator, Location (if available). *Title of Video: In Initial Caps*. (Release date). Accessed: Month Day, Year. [Online Video]. Available: <http://URL.onlinevideo.org>

mtaOnline1, Fazi Mosque, U.K. An Occasionally Accurate History of Australia: Part I. (Oct. 23, 2006). Accessed: Oct. 6, 2010. [Online Video]. Available: <http://www.youtube.com/watch?v=IJjNsCVHc34>

Doane Academy, Burlington, NJ, USA. Second Grade Bossy R. (Feb. 28, 2013). Accessed: Jun. 3, 2018. [Online Video]. Available: <https://www.youtube.com/watch?v=PUKH01Y-BcM>

## I. Patent

Retain or request the day of the month when referencing a patent.

**NOTE:** Use “issued date” if several dates are given.

*Basic Format:*

- J. K. Author, “Title of patent,” U.S. Patent x xxx xxx, Abbrev. Month, day, year.
- J. K. Author, “Title of patent,” Country Patent xxx, Abbrev. Month, day, year.

*Examples:*

- J. P. Wilkinson, “Nonlinear resonant circuit devices,” U.S. Patent 3 624 125, Jul. 16, 1990.
- T. Mei and T. Yang, “Circuit and method for average-current regulation of light-emitting diodes,” U.S. Patent 7 898 187 B1, 2011, Mar. 1, 2012.
- W. W. Black and A. Clavin, “Dipole augmented slot radiating element,” U.S. Patent 3594806, Jul. 1971.
- S. P. Voinigescu *et al.*, Direct *m*-ary quadrature amplitude modulation (QAM) operating in saturated power mode,” U.S. Patent Appl. 20110013726A1, Jan. 20, 2011.
- K. Klionovski, “Broadband dual-band microstrip antenna,” (in Russian), RU Patent Utility Model 167296, Dec. 27, 2016.

### Patent Online

*Basic Format:*

- Name of the invention, by inventor’s name. (year, month day). Patent Number [Type of medium]. Available: site/path/file

*Examples:*

- Musical toothbrush with adjustable neck and mirror, by L. M. R. Brooks. (1992, May 19). Patent D 326 189 [Online]. Available: NEXIS Library: LEXPAT File: DESIGN
- Screwless clip mounted computer drive, by D. Williams. (2005, Apr. 26). U.S. Patent 6,885,550 [Online]. Available: <http://patft.uspto.gov/netacgi/6,885,550>

## J. Periodicals

### Periodicals

Prior to 1988, the volume number of IEEE Transactions/Journals carried the acronym of the journal. For example, an issue of the IEEE TRANSACTIONS ON AUTOMATIC CONTROL would read: *IEEE Trans. Automat. Contr.*, vol. AC-26, no. 1, pp. 1–34, Jan. 1981. When referencing IEEE Transactions, both the issue number and month are included

upon verification of frequency and starting month. DOIs are included, when provided by the author.

**NOTE:** The only exception to this rule is PROCEEDINGS OF THE IEEE, which never carried an acronym on the masthead.

*Basic Format:*

- J. K. Author, "Name of paper," *Abbrev. Title of Periodical*, vol. *x*, no. *x*, pp. *xxx-xxx*, Abbrev. Month, year.
- J. K. Author, "Name of paper," *Abbrev. Title of Periodical*, vol. *x*, no. *x*, pp. *xxx-xxx*, Abbrev. Month, year, doi: *xxx*.

*Examples:*

- M. M. Chiampi and L. L. Zilberti, "Induction of electric field in human bodies moving near MRI: An efficient BEM computational procedure," *IEEE Trans. Biomed. Eng.*, vol. 58, pp. 2787–2793, Oct. 2011, doi: 10.1109/TBME.2011.2158315.
- M. Ito *et al.*, "Application of amorphous oxide TFT to electrophoretic display," *J. Non-Cryst. Solids*, vol. 354, no. 19, pp. 2777–2782, Feb. 2008.
- R. Fardel, M. Nagel, F. Nuesch, T. Lippert, and A. Wokaun, "Fabrication of organic light emitting diode pixels by laser-assisted forward transfer," *Appl. Phys. Lett.*, vol. 91, no. 6, Aug. 2007, Art. no. 061103.
- J. Zhang and N. Tansu, "Optical gain and laser characteristics of InGaN quantum wells on ternary InGaN substrates," *IEEE Photon. J.*, vol. 5, no. 2, Apr. 2013, Art. no. 2600111.
- S. Preu, G.H.Döhler, S.Malzer, L.J.Wang, and A. C. Gossard, "Tunable continuous-wave terahertz photo mixer sources and applications," *J. Appl. Phys.*, vol. 109, Mar. 2011, Art. no. 061301.
- S. Azodolmolky *et al.*, "Experimental demonstration of an impairment aware network planning and operation tool for transparent/translucent optical networks," *J. Lightw. Technol.*, vol. 29, no. 4, pp. 439–448, Sep. 2011.
- H. Eriksson and P. E. Danielsson, "Two problems on Boolean memories," *IEEE Trans. Electron. Devices*, vol. ED-11, no. 1, pp. 32–33, Jan. 1959.
- F. Aronowitz, "Theory of traveling-wave optical maser," *Phys. Rev.*, vol. 134, pp. A635–A646, Dec. 8, 1965.
- Ye. V. Lavrova, "Geographic distribution of ionospheric disturbances in the F2 layer," *Tr. IZMIRAN*, vol. 19, no. 29, pp. 31–43, 1961 (Transl.: E. R. Hope, Directorate of Scientific Information Services, Defence Research Board of Canada, Rep. T384R, Apr. 1963).
- E. P. Wigner, "On a modification of the Rayleigh–Schrodinger perturbation theory," (in German), *Math. Naturwiss. Anz. Ungar. Akad. Wiss.*, vol. 53, p. 475, 1935.
- E. H. Miller, "A note on reflector arrays," *IEEE Trans. Antennas Propag.*, to be published. \*\*\* Always use this style when the paper has been accepted or scheduled for a future publication, i.e., do not use "to appear in." \*\*\*
- C. K. Kim, "Effect of gamma rays on plasma," submitted for publication. \*\*\* Always use this style when the paper has not yet been accepted or scheduled for publication, i.e., do not use "to appear in." \*\*\*
- W. Rafferty, "Ground antennas in NASA's deep space telecommunications," *Proc. IEEE*, vol. 82, no. 5, pp. 636–640, May 1994.
- P. Kopyt *et al.*, "Electric properties of graphene-based conductive layers from DC up to terahertz range," *IEEE THz Sci. Technol.*, to be published. doi: 10.1109/TTHZ.2016.2544142.
- T. Brunswiler *et al.*, "Formulation of percolating thermal underfills using hierarchical self-assembly of microparticles and nanoparticles by centrifugal forces and capillary bridging," *J. Microelectron. Electron. Packag.*, vol. 9, no. 4, pp. 149–159, 2012, doi: 10.4071/imaps.357.
- L. T. Wu *et al.*, "Real-time analytic sensitivity method for transient security assessment and prevent control," *Proc. Inst. Elect. Eng.*, vol. 135, pt. C, pp. 107–117, Mar. 1988.  
\*\*\*Authors may refer to this journal as *Proc. IEE*, but the abbreviation must be as listed above. *Proc. IEE* is printed in the U.K. and must not be confused with the *Proc. IEEE*.\*\*\*
- *Special Issue on Artificial Neural Network Applications*, *Proc. IEEE*, vol. 84, pp. 1353–1576, Oct. 1996.

*Article Referred to in the Same Issue:*

- R. U. Aslip, "Surface and leaky wave antennas," *IEEE Trans. Circuits Syst. I, Fundam. Theory Appl.*, vol. 30, no.1, pp. 545–546, Jan. 2000.

**NOTE:** Handle it exactly as any other reference with no difference.

## Periodical With Article ID

### Basic Format:

- J. K. Author, “Name of paper,” *Abbrev. Title of Periodical*, vol. x, no. x, Abbrev. month, year, Art. no. xxx.

### Examples:

- J. Zhang and N. Tansu, “Optical gain and laser characteristics of InGaN quantum wells on ternary InGaN substrates,” *IEEE Photon. J.*, vol. 5, no. 2, Apr. 2013, Art. no. 2600111.
- R. Fardel, M. Nagel, F. Nuesch, T. Lippert, and A. Wokaun, “Fabrication of organic light emitting diode pixels by laser-assisted forward transfer,” *Appl. Phys. Lett.*, vol. 91, no. 6, Aug. 2007, Art. no. 061103.
- S. Preu, G. H. Döhler, S. Malzer, L. J. Wang, and A. C. Gossard, “Tunable continuous-wave terahertz photo mixer sources and applications,” *J. Appl. Phys.*, vol. 109, Mar. 2011, Art. no. 061301.
- L. Kuang *et al.*, “A numerical method for analyzing electromagnetic scattering properties of a moving conducting object,” *Int. J. Antennas Propag.*, vol. 2014, 2014, Art. no. 386315, doi: 10.1155/2014/386315.

## Periodical With DOI

### Basic Format:

- J. K. Author, “Name of paper,” *Abbrev. Title of Periodical*, vol. x, no. x, pp. xxx–xxx, Abbrev. month, year, doi: xxx.

### Example:

- M. M. Chiampi and L. L. Zilberti, “Induction of electric field in human bodies moving near MRI: An efficient BEM computational procedure,” *IEEE Trans. Biomed. Eng.*, vol. 58, no. 10, pp. 2787–2793, Oct. 2011, doi: 10.1109/TBME.2011.2158315.

## Periodical in Other Language

### Basic Format:

- J. K. Author, “Name of paper,” (in Language), *Abbrev. Title of Periodical*, vol. x, no. x, Abbrev. month, year, Art. no. xxx.

### Examples:

- E. P. Wigner, “On a modification of the Rayleigh–Schrodinger perturbation theory,” (in German), *Math. Naturwiss. Anz. Ungar. Akad. Wiss.*, vol. 53, p. 475, 1935.
- Y. V. Lavrova, “Geographic distribution of ionospheric disturbances in the F2 layer,” *Tr. IZMIRAN*, vol. 19, no. 29, pp. 31–43, 1961 (Transl.: E. R. Hope, Directorate of Scientific Information Services, Defence Research Board of Canada, Rep. T384R, Apr. 1963).

## Periodicals Online

### Basic Format:

- J. K. Author, “Name of paper,” *Abbrev. Title of Periodical*, vol. x, no. x, pp. xxx–xxx, Abbrev. Month, year. Accessed: Month, Day, Year, doi: 10.1109.XXX.123456. [Online]. Available: site/path/file

### Examples:

- W. P. Risk, G. S. Kino, and H. J. Shaw, “Fiber-optic frequency shifter using a surface acoustic wave incident at an oblique angle,” *Opt. Lett.*, vol. 11, no. 2, pp. 115–117, Feb. 1986. [Online]. Available: <http://ol.osa.org/abstract.cfm?URI=ol-11-2-115>
- P. Kopyt *et al.*, “Electric properties of graphene-based conductive layers from DC up to terahertz range,” *IEEE THz Sci. Technol.*, to be published, doi: 10.1109/TTHZ.2016.2544142.

## Virtual Journal

*Basic Format:*

- Name(s) of Ed(s), “Title of Issue,” in *Title of Journal*, Abbrev. month year. [Online]. Available: URL

*Examples:*

- J. Smith, T. Jones, and B. Simpson, Eds., “IEEE Biometrics Compendium Issue 30 December 2017,” in *IEEE Biometrics Compendium*, Dec. 2017. [Online]. Available: <http://ieeexplore.ieee.org/virtual-journals/biocomp/issue/30/>
- T. Robertson, Ed., “RFIC Virtual Journal—Issue 6,” in *IEEE RFIC Virtual Journal*, Oct. 2014. [Online]. Available: <http://ieeexplore.ieee.org/virtual-journals/rfic/issue/6/>
- “RFID Virtual Journal—Issue 10,” in *IEEE RFID Virtual Journal*, Nov. 2015. [Online]. Available: <http://ieeexplore.ieee.org/virtual-journals/rfid/issue/10/>

## K. Reports

The general form for citing technical reports is to place the name and location of the company or institution after the author and title and to give the report number and date at the end of the reference.

*Basic Format:*

- J. K. Author, “Title of report,” Abbrev. Name of Co., City of Co., Abbrev. State, Country, Rep. xxx, year.

*Examples:*

- E. E. Reber, R. L. Michell, and C. J. Carter, “Oxygen absorption in the earth’s atmosphere,” Aerospace Corp., Los Angeles, CA, USA, Tech. Rep. TR-0200 (4230-46)-3, Nov. 1988.
- J. H. Davis and J. R. Cogdell, “Calibration program for the 16-foot antenna,” Elect. Eng. Res. Lab., Univ. Texas, Austin, Tech. Memo. NGL-006-69-3, Nov. 15, 1987.
- R. E. Haskell and C. T. Case, “Transient signal propagation in lossless isotropic plasmas,” USAF Cambridge Res. Labs., Cambridge, MA, USA, Rep. ARCRL-66-234 (II), 1994, vol. 2.
- M. A. Brusberg and E. N. Clark, “Installation, operation, and data evaluation of an oblique-incidence ionosphere sounder system,” in “Radio Propagation Characteristics of the Washington-Honolulu Path,” Stanford Res. Inst., Stanford, CA, USA, Contract NOBSR-87615, Final Rep., Feb. 1995, vol. 1.
- P. Diamant, S. L. Richert, and W. L. Lupatkin, “V-line surface-wave radiation and scanning,” Dept. Elect. Eng., Columbia Univ., New York, NY, USA, Sci. Rep. 85, Aug. 1991.

## Report Online

Ensure a year is included and add the URL to the end of the reference.

*Basic Format:*

- J. K. Author, “Title of report,” Company, City, State, Country, Rep. no., (optional: vol./issue), Date. Accessed: Date. [Online]. Available: site/path/file

*Examples:*

- R. J. Hijmans and J. van Etten, “Raster: Geographic analysis and modeling with raster data,” R Package Version 2.0-12, Jan. 12, 2012. [Online]. Available: <http://CRAN.R-project.org/package=raster>
- “Teralyzer,” Lytera UG, Kirchhain, Germany. Accessed: Jun. 5, 2014. [Online]. Available: [http://www.lytera.de/Terahertz\\_THz\\_Spectroscopy.php?id=home](http://www.lytera.de/Terahertz_THz_Spectroscopy.php?id=home)
- F. Zhao, “Smartphone solutions white paper,” Shenzhen, China, Huawei, White Paper, 2012. [Online]. Available: [http://www.huawei.com/ilink/en/download/HW\\_193034](http://www.huawei.com/ilink/en/download/HW_193034)
- Bureau of Meteorology, “Bureau of Meteorology: Measuring Rainfall in Australia,” 2009. [Online]. Available: <http://www.bom.gov.au/climate/cdo/about/definitionsrain.shtml#meanrainfall>
- [GeoBasisNRW HYPERLINK "http://ol.osa.org/abstract.cfm?URI=ol-11-2-115"](http://ol.osa.org/abstract.cfm?URI=ol-11-2-115), “ATKIS—Digitale Topographische Karte 1:25.000 (DTK25),” Bezirksregierung Köln, Cologne, Germany, 2012. [Online]. Available: <http://www.bezreg-koeln.nrw.de/brkinternet/presse/publikationen/geobasis/fal> [HYPERLINK "http://ol.osa.org/abstract.cfm?URI=ol-11-2-115"](http://ol.osa.org/abstract.cfm?URI=ol-11-2-115) tblatt\_geobasis\_

"http://ol.osa.org/abstract.cfm?URI=ol-11-2-115"atkis01.pdf

- K. Kagaku, "Multipurpose chest phantom: Lungman." Accessed: Apr. 17, 2014. [Online]. Available: [http://www.kyotokagaku.com/products/detail03/pdf/ph-1\\_catalog.pdf](http://www.kyotokagaku.com/products/detail03/pdf/ph-1_catalog.pdf)
- "Apple iPhone," Apple Inc., Palo Alto, CA, USA. Accessed: Feb. 25, 2013. [Online]. Available: <http://apple.com/iphone/>
- S. Urazhdin, N. O. Birge, W. P. Pratt Jr., and J. Bass, "Current-driven magnetic excitations in permalloy-based multilayer nanopillars," 2003. [Online]. Available: arXiv:cond-mat/0303149.

## L. Standards

*Basic Format:*

- *Title of Standard*, Standard number, Corporate author, location, date.
- *Title of Standard*, Standard number, date.

*Examples:*

- *Parameter Values for Ultra-High Definition Television Systems for Switzerland, Production and International Programme Exchange*, Rec. ITU-R BT.2020-2, International Telecommunications Union, Geneva, Switzerland, Oct. 2015.
- *IEEE Criteria for Class IE Electric Systems*, IEEE Standard 308, 1969.
- *Letter Symbols for Quantities*, ANSI Standard Y10.5-1968.

### Standard Online

*Basic Format:*

- *Title of Standard*, Standard number, Corporate author, location, date. [Online]. Available: <http://www.url.com>
- *Title of Standard*, Standard number, date. [Online]. Available: <http://www.url.com>

*Example:*

- *Frequency Response and Bias*, NERC Reliability Standard BAL-003-0.1b, May 2009. [Online]. Available: [http://www.nerc.com/files/BAL-003-0\\_1b.pdf](http://www.nerc.com/files/BAL-003-0_1b.pdf)

## M. Theses (B.S., M.S.) and Dissertations (Ph.D.)

*Basic Format:*

- J. K. Author, "Title of thesis," M.S. thesis, Abbrev. Dept., Abbrev. Univ., City of Univ., Abbrev. State, year.
- J. K. Author, "Title of dissertation," Ph.D. dissertation, Abbrev. Dept., Abbrev. Univ., City of Univ., Abbrev. State, year.

*Examples:*

- J. O. Williams, "Narrow-band analyzer," Ph.D. dissertation, Dept. Elect. Eng., Harvard Univ., Cambridge, MA, USA, 1993.
- N. Kawasaki, "Parametric study of thermal and chemical nonequilibrium nozzle flow," M.S. thesis, Dept. Electron. Eng., Osaka Univ., Osaka, Japan, 1993.
- N. M. Amer, "The effects of homogeneous magnetic fields on developments of tribolium confusum," Ph.D. dissertation, Radiation Lab., Univ. California, Berkeley, Tech. Rep. 16854, 1995. \*\*\* *The state abbreviation is omitted if the name of the university includes the state name, i.e., "Univ. California, Berkeley."*\*\*\*
- C. Beclé, These de doctoral d'état, Univ. Grenoble, Grenoble, France, 1968.

### Thesis Online

*Basic Format:*

- J. K. Author, "Title of thesis," M.S. thesis, Abbrev. Dept., Abbrev. Univ., City of Univ., Abbrev. State, Country,

year. [Online]. Available: <http://www.url.com>

- J. K. Author, “Title of dissertation,” Ph.D. dissertation, Abbrev. Dept., Abbrev. Univ., City of Univ., Abbrev. State, Country, year. [Online]. Available: <http://www.url.com>

*Examples:*

- F. Jensen, “Electromagnetic near-field far-field correlations,” Ph.D. dissertation, Dept. Elect. Eng., Tech. Univ. Denmark, Lyngby, Denmark, 1970. [Online]. Available: [www.tud.ed/jensen/diss](http://www.tud.ed/jensen/diss)
- D. Schwartz, “Development of a computationally efficient full human body finite element model,” M.S. thesis, Virginia Tech – Wake Forest Univ. School of Biomed. Eng. Sci., Winston-Salem, NC, USA, 2015. [Online]. Available: [https://wakespace.lib.wfu.edu/bitstream/handle/10339/57119/Schwartz\\_wfu\\_0248M\\_10697.pdf](https://wakespace.lib.wfu.edu/bitstream/handle/10339/57119/Schwartz_wfu_0248M_10697.pdf)

## N. U.S. Government Documents

*Basic Format:*

- Legislative body. Number of Congress, Session. (year, month day). *Number of bill or resolution, Title.* [Type of medium]. Available: site/path/file

*Example:*

- U.S. House. 102nd Congress, 1st Session. (1991, Jan. 11). *H. Con. Res. 1, Sense of the Congress on Approval of Military Action.* [Online]. Available: LEXIS Library: GENFED File: BILLS

### Government Online

*Basic Format:*

- Legislative body. Number of Congress, Session. (year, month day). *Number of bill or resolution, Title.* [Type of medium]. Available: site/path/file

*Example:*

- U.S. House. 102nd Congress, 1st Session. (1991, Jan. 11). *H. Con. Res. 1, Sense of the Congress on Approval of Military Action.* [Online]. Available: LEXIS Library: GENFED File: BILLS

## O. Unpublished

These are the two most common types of unpublished references.

*Basic Format:*

- J. K. Author, private communication, Abbrev. Month, year.
- J. K. Author, “Title of paper,” unpublished.

*Examples:*

- A. Harrison, private communication, May 1995.
- B. Smith, “An approach to graphs of linear forms,” unpublished.
- A. Brahms, “Representation error for real numbers in binary computer arithmetic,” IEEE Computer Group Repository, Paper R-67-85.
- S. Urazhdin, N. O. Birge, W. P. Pratt Jr., and J. Bass, “Current-driven magnetic excitations in permalloy-based multilayer nanopillars,” 2003, *arXiv:0303149*.
- 

## P. Websites

The most basic entry for a website consists of the author name(s), page title, website title, web address, and date



accessed:

First Name Initial(s) Last Name. “Page Title.” Website Title. Web Address (retrieved Date Accessed).

J. Smith. “Obama inaugurated as President.” CNN.com.  
[http://www.cnn.com/POLITICS/01/21/obama\\_inaugurated/index.html](http://www.cnn.com/POLITICS/01/21/obama_inaugurated/index.html) (accessed Feb. 1, 2009).

The first author’s name should be first initial(s) and then the last name and a period. Titles and affiliations associated with the author should be omitted. A suffix, such as a roman numeral or Jr./Sr., should appear after the author’s given name, preceded by a comma.

For a page with two or more authors, list them in the order as they appear on the website. Separate author names by a comma.

J. Smith and J. Doe. “Obama inaugurated as President.” CNN.com.  
[http://www.cnn.com/POLITICS/01/21/obama\\_inaugurated/index.html](http://www.cnn.com/POLITICS/01/21/obama_inaugurated/index.html) (accessed Feb. 1, 2009).

Include the web address of the page. Next, place the text “accessed” and the date on which you accessed the website (written in the format of “month day, year”) in parentheses. Conclude the citation with a period after the parentheses.

For informal websites (such as home page or fan websites) or websites without formal titles, use descriptive phrases in your citation in place of page or website titles.

### III. NOTES ABOUT ONLINE REFERENCES

The guidelines for citing electronic information as offered here are in modified illustration of the adaptation by the International Standards Organization (ISO) documentation system and the American Psychological Association style.

There are various options for including a URL in a reference. Follow the order of details and whether a period needs to be placed at the end of the reference. The style of the accessed date is “Accessed: Abbrev. month and day, year.” The placement of the accessed date within the reference should match how it is provided in the final author-submitted version.

- Accessed date. [Online]. Available: URL, DOI (add period at end).
- Accessed date. [Online]. Available: URL (no period at end)
- Accessed date, DOI (add period at end).
- URL, DOI (add period at end).
- (no accessed date), DOI (add period at end unless hyperlink).
- URL (no period at end)

#### *Guidelines for Breaking URLs:*

- Break after slash or double slash.
- Break “before” the hyphen that is part of an address, but do not break after; do not add hyphens or spaces; do not let addresses hyphenate.
- Break “before” a tilde (~), a hyphen, an underscore (\_), a question mark, or a percent (%) symbol.
- Break before or after an equal sign or an ampersand (follow the same rule for the “at” (@) symbol).

## IV. USEFUL ABBREVIATIONS IN REFERENCES

### A. Common Abbreviations of Words in References

|                     |            |  |                |            |
|---------------------|------------|--|----------------|------------|
| Abstracts           | Abstr.     |  | Analysis       | Anal.      |
| Academy             | Acad.      |  | Annals         | Ann.       |
| Accelerator         | Accel.     |  | Annual         | Annu.      |
| Acoustics           | Acoust.    |  | Apparatus      | App.       |
| Active              | Act.       |  | Applications   | Appl.      |
| Administration      | Admin.     |  | Applied        | Appl.      |
| Administrative      | Administ.  |  | Approximate    | Approx.    |
| Advanced            | Adv.       |  | Archive(s)     | Arch.      |
| Aeronautics         | Aeronaut.  |  | Artificial     | Artif.     |
| Aerospace           | Aerosp.    |  | Assembly       | Assem.     |
| Affective           | Affect.    |  | Association    | Assoc.     |
| Africa, African     | Afr.       |  | Astronomy      | Astron.    |
| Aircraft            | Aircr.     |  | Astronautics   | Astronaut. |
| Algebraic           | Algebr.    |  | Astrophysics   | Astrophys. |
| American            | Amer.      |  | Atmosphere     | Atmos.     |
|                     |            |  |                |            |
| Atomic, Atoms       | At.        |  | Broadcasting   | Broadcast. |
| Australasian        | Australas. |  | Bulletin       | Bull.      |
| Australia           | Aust.      |  | Bureau         | Bur.       |
| Automatic           | Autom.     |  | Business       | Bus.       |
| Automation          | Automat.   |  | Canadian       | Can.       |
| Automotive          | Automot.   |  | Ceramic        | Ceram.     |
| Autonomous          | Auton.     |  | Chemical       | Chem.      |
| Behavior(al)        | Behav.     |  | Chinese        | Chin.      |
| Belgian             | Belg.      |  | Climatology    | Climatol.  |
| Biochemical         | Biochem.   |  | Clinical       | Clin.      |
| Bioinformatics      | Bioinf.    |  | Cognitive      | Cogn.      |
| Biology, Biological | Biol.      |  | Colloquium     | Colloq.    |
| Biomedical          | Biomed.    |  | Communications | Commun.    |
| Biophysics          | Biophys.   |  | Compatibility  | Compat.    |
| British             | Brit.      |  | Component(s)   | Compon.    |
|                     |            |  |                |            |
| Computational       | Comput.    |  | Delivery       | Del.       |
| Computer(s)         | Comput.    |  | Department     | Dept.      |
| Computing           | Comput.    |  | Design         | Des.       |
| Condensed           | Condens.   |  | Detector       | Detect.    |
| Conference          | Conf.      |  | Development    | Develop.   |
| Congress            | Congr.     |  | Differential   | Differ.    |
| Consumer            | Consum.    |  | Digest         | Dig.       |

|                    |                |  |                  |             |
|--------------------|----------------|--|------------------|-------------|
| Conversion         | Convers.       |  | Digital          | Digit.      |
| Convention         | Conv.          |  | Disclosure       | Discl.      |
| Correspondence     | Corresp.       |  | Discussions      | Discuss.    |
| Critical           | Crit.          |  | Dissertations    | Diss.       |
| Crystal            | Cryst.         |  | Distributed      | Distrib.    |
| Crystallography    | Crystallogr.   |  | Dynamics         | Dyn.        |
| Cybernetics        | Cybern.        |  | Earthquake       | Earthq.     |
| Decision           | Decis.         |  | Economic(s)      | Econ.       |
|                    |                |  |                  |             |
| Edition            | Ed.            |  | Evolutionary     | Evol.       |
| Education          | Educ.          |  | Exhibition       | Exhib.      |
| Electrical         | Elect.         |  | Experimental     | Exp.        |
| Electrification    | Electrific.    |  | Exploratory      | Explor.     |
| Electromagnetic    | Electromagn.   |  | Exposition       | Expo.       |
| Electroacoustic    | Electroacoust. |  | Express          | Express     |
| Electronic         | Electron.      |  | Fabrication      | Fabr.       |
| Emerging           | Emerg.         |  | Faculty          | Fac.        |
| Engineering        | Eng.           |  | Ferroelectrics   | Ferroelect. |
| Environment        | Environ.       |  | Francais, French | Fr.         |
| Equations          | Equ.           |  | Frequency        | Freq.       |
| Equipment          | Equip.         |  | Foundation       | Found.      |
| Ergonomics         | Ergonom.       |  | Fundamental      | Fundam.     |
| European           | Eur.           |  | Generation       | Gener.      |
| Evaluation         | Eval.          |  | Geology          | Geol.       |
|                    |                |  |                  |             |
| Geophysics         | Geophys.       |  | Innovation       | Innov.      |
| Geoscience         | Geosci.        |  | Institute        | Inst.       |
| Graphics           | Graph.         |  | Instrument       | Instrum.    |
| Guidance           | Guid.          |  | Instrumentation  | Instrum.    |
| Harmonic(s)        | Harmon.        |  | Insulation       | Insul.      |
| History            | Hist.          |  | Integrated       | Integr.     |
| Horizon            | Horiz.         |  | Intelligence     | Intell.     |
| Hungary, Hungarian | Hung.          |  | Intelligent      | Intell.     |
| Hydraulics         | Hydraul.       |  | Interactions     | Interact.   |
| Hydrology          | Hydrol.        |  | International    | Int.        |
| Illuminating       | Illum.         |  | Isotopes         | Isot.       |
| Imaging            | Imag.          |  | Israel           | Isr.        |
| Industrial         | Ind.           |  | Japan            | Jpn.        |
| Information        | Inf.           |  | Journal          | J.          |
| Informatics        | Inform.        |  | Knowledge        | Knowl.      |
|                    |                |  |                  |             |
| Laboratory(ies)    | Lab.           |  | Mathematical     | Math.       |
| Language           | Lang.          |  | Mathematics      | Math.       |

|                     |              |  |                        |                   |
|---------------------|--------------|--|------------------------|-------------------|
| Learning            | Learn.       |  | Measurement            | Meas.             |
| Letter(s)           | Lett.        |  | Mechanical             | Mech.             |
| Lightwave           | Lightw.      |  | Medical                | Med.              |
| Logic, Logical      | Log.         |  | Metals                 | Met.              |
| Luminescence        | Lumin.       |  | Metallurgy             | Metall.           |
| Machine             | Mach.        |  | Meteorology            | Meteorol.         |
| Magazine            | Mag.         |  | Metropolitan           | Metrop.           |
| Magnetics           | Magn.        |  | Mexican, Mexico        | Mex.              |
| Management          | Manage.      |  | Microelectromechanical | Microelectromech. |
| Managing            | Manag.       |  | Microgravity           | Microgr.          |
| Manufacturing       | Manuf.       |  | Microscopy             | Microsc.          |
| Marine              | Mar.         |  | Microwave(s)           | Microw.           |
| Material            | Mater.       |  | Military               | Mil.              |
|                     |              |  |                        |                   |
| Modeling            | Model.       |  | Oceanic                | Ocean.            |
| Molecular           | Mol.         |  | Oceanography           | Oceanogr.         |
| Monitoring          | Monit.       |  | Occupation             | Occupat.          |
| Multiphysics        | Multiphys.   |  | Operational            | Oper.             |
| Nanobioscience      | Nanobiosci.  |  | Optical                | Opt.              |
| Nanotechnology      | Nanotechnol. |  | Optics                 | Opt.              |
| National            | Nat.         |  | Optimization           | Optim.            |
| Naval               | Nav.         |  | Organization           | Org.              |
| Network, Networking | Netw.        |  | Packaging              | Packag.           |
| Newsletter          | Newslett.    |  | Particle               | Part.             |
| Nondestructive      | Nondestruct. |  | Patent                 | Pat.              |
| Nuclear             | Nucl.        |  | Performance            | Perform.          |
| Numerical           | Numer.       |  | Personal               | Pers.             |
| Observations        | Observ.      |  | Philosophical          | Philos.           |
|                     |              |  |                        |                   |
| Photonics           | Photon.      |  | Productivity           | Productiv.        |
| Photovoltaics       | Photovolt.   |  | Programming            | Program.          |
| Physics             | Phys.        |  | Progress               | Prog.             |
| Physiology          | Physiol.     |  | Propagation            | Propag.           |
| Planetary           | Planet.      |  | Psychology             | Psychol.          |
| Pneumatics          | Pneum.       |  | Quality                | Qual.             |
| Pollution           | Pollut.      |  | Quarterly              | Quart.            |
| Polymer             | Polym.       |  | Radiation              | Radiat.           |
| Polytechnic         | Polytech.    |  | Radiology              | Radiol.           |
| Practice            | Pract.       |  | Reactor                | React.            |
| Precision           | Precis.      |  | Receivers              | Receiv.           |
| Principles          | Princ.       |  | Recognition            | Recognit.         |
| Proceedings         | Proc.        |  | Record                 | Rec.              |
| Processing          | Process.     |  | Rehabilitation         | Rehabil.          |

|                    |             |  |                |            |
|--------------------|-------------|--|----------------|------------|
| Production         | Prod.       |  | Reliability    | Rel.       |
|                    |             |  |                |            |
| Report             | Rep.        |  | Semiconductor  | Semicond.  |
| Research           | Res.        |  | Sensing        | Sens.      |
| Resonance          | Reson.      |  | Series         | Ser.       |
| Resources          | Resour.     |  | Simulation     | Simul.     |
| Review             | Rev.        |  | Singapore      | Singap.    |
| Robotics           | Robot.      |  | Sistema        | Sist.      |
| Royal              | Roy.        |  | Society        | Soc.       |
| Safety             | Saf.        |  | Sociological   | Sociol.    |
| Satellite          | Satell.     |  | Software       | Softw.     |
| Scandinavian       | Scand.      |  | Solar          | Sol.       |
| Science            | Sci.        |  | Soviet         | Sov.       |
| Section            | Sect.       |  | Spectroscopy   | Spectrosc. |
| Security           | Secur.      |  | Spectrum       | Spectr.    |
| Seismology         | Seismol.    |  | Speculations   | Specul.    |
| Selected           | Sel.        |  | Statistics     | Statist.   |
|                    |             |  |                |            |
| Structure          | Struct.     |  | Terrestrial    | Terr.      |
| Studies            | Stud.       |  | Theoretical    | Theor.     |
| Superconductivity  | Supercond.  |  | Transactions   | Trans.     |
| Supplement         | Suppl.      |  | Translation    | Transl.    |
| Surface            | Surf.       |  | Transmission   | Transmiss. |
| Survey             | Surv.       |  | Transportation | Transp.    |
| Sustainable        | Sustain.    |  | Tutorials      | Tut.       |
| Symposium          | Symp.       |  | Ultrasonic     | Ultrason.  |
| Systems            | Syst.       |  | University     | Univ.      |
| Technical          | Tech.       |  | Vacuum         | Vac.       |
| Techniques         | Techn.      |  | Vehicular      | Veh.       |
| Technology         | Technol.    |  | Vibration      | Vib.       |
| Telecommunications | Telecommun. |  | Visual         | Vis.       |
| Television         | Telev.      |  | Welding        | Weld.      |
| Temperature        | Temp.       |  | Working        | Work.      |

## B. List of Publishers

**NOTE:** Each publisher's complete title is shown, but do not use what is in parentheses. This is just to show the entire title.

|                                            |
|--------------------------------------------|
| <b>A</b>                                   |
| Abelard-Schuman (Ltd.), New York, NY, USA  |
| Abingdon (Press), Nashville, TN, USA       |
| Ablex (Publishing Corp.), Norwood, NJ, USA |
| Harry N. Abrams (Inc.), New York, NY, USA  |

|                                                                                   |
|-----------------------------------------------------------------------------------|
| Academic (Press Inc.), New York, NY, USA; Orlando, FL, USA; San Diego, CA, USA    |
| Ace Books (Inc.), New York, NY, USA                                               |
| Adam Hilger, New York, NY, USA                                                    |
| Addison-Wesley, Reading, MA, USA                                                  |
| Aegean Park (Press), Laguna Hills, CA, USA                                        |
| Aiglon (Press, Ltd.), London, U.K.                                                |
| AIP (American Inst. Phys.), New York, NY, USA                                     |
| Alden (& Co., Ltd.), Oxford, U.K.                                                 |
| Aldine (Publishing Co.), London, U.K.                                             |
| Allen & Sons (Ltd.), London, U.K.                                                 |
| G. (George) Allen (& Unwin Ltd.), London, U.K.                                    |
| H. (Howard) Allen (Inc.), Cleveland, OH, USA                                      |
| Allenson (& Co., Ltd.), London, U.K.                                              |
| Allyn & Bacon (Inc.), Boston, MA, USA                                             |
| American Book (Co.), New York, NY, USA                                            |
| American Council on Public Affairs, Washington, DC, USA                           |
| American Elsevier, New York, NY, USA                                              |
| American Geographical Soc., New York, NY, USA                                     |
| American Library Assoc., Chicago, IL, USA                                         |
| American Management Assoc. (Inc.), New York, NY, USA                              |
| American Philosophical Soc., Philadelphia, PA, USA                                |
| American Psychological Assoc. (Inc.), Washington, DC, USA                         |
| American Technical Soc., Chicago, IL, USA                                         |
| Amphoto Books (American Photographic Book Publishing Co. Inc.), New York, NY, USA |
| Antioch (Press), Yellow Springs, OH, USA                                          |
| Appleton (-Century-Crofts), New York, NY, USA                                     |
| Architectural Book (Publishing Co., Inc.), New York, NY, USA                      |
| Arco (Publishing Co., Inc.), New York, NY, USA                                    |
| Argus (Books, Inc.), Mohegan Lake, NY, USA                                        |
| E. (Edward) Arnold (& Co.), London, U.K.                                          |
| E. J. Arnold (& Sons, Ltd.), London, U.K.                                         |
| Artech House, Norwood, MA, USA                                                    |
| ASME (American Soc. Mechanical Eng.), New York, NY, USA                           |
| Aspen (Publishing, Inc.), Gaithersburg, MD, USA                                   |
| Associated Press, New York, NY, USA                                               |
| Athena Scientific, Belmont, MA, USA                                               |
| Atheneum Press, Boston, MA, USA                                                   |

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|------------------------------------------------------------------------------|
| Atheneum Press (Ltd.), London, U.K.                                          |
| Atheneum (Publishers), New York, NY, USA                                     |
| Atherton (Press), New York, NY, USA                                          |
| Atlantic Monthly (Press), Boston, MA, USA                                    |
| Auerbach (Publishing), New York, NY, USA                                     |
| Augsburg (Publishing House), Minneapolis, MN, USA                            |
| (J. J.) Augustin (Inc.), Locust Valley, NY, USA                              |
| (N.W.) Ayer (& Sons, Inc.), Philadelphia, PA, USA                            |
|                                                                              |
| <b>B</b>                                                                     |
| Babson (Statistical Organization, Inc.), Wellesley Hills, MA, USA            |
| (Karl) Baedeker, Leipzig, Germany                                            |
| Bailliere (Tindall & Cox, Ltd.), London, U.K.                                |
| W. H. Baker (Co.), Boston, MA, USA                                           |
| Ballentine (Books, Inc.), New York, NY, USA                                  |
| Bankers (Publishing Co.), Boston, MA, USA                                    |
| Banta (George Banta Publishing Co. - The Collegiate Press), Menasha, WI, USA |
| A. S. Barnes (& Co., Inc.), Cranbury, NJ, USA                                |
| Barnes & Noble (Inc.), New York, NY, USA                                     |
| Barren (Educational Series, Inc.), Woodbury, NY, USA                         |
| (M.) Barrows (& Co., Inc.), New York, NY, USA                                |
| (Johann Ambrosius) Barth, Munich, Germany                                    |
| Basic Books (Inc.), New York, NY, USA                                        |
| Battelle (Press), Columbus, OH, USA                                          |
| Baylor Univ. Press, Waco, TX, USA                                            |
| Beacon (Press), Boston, MA, USA                                              |
| G. Bell (& Sons, Ltd.), London, U.K.                                         |
| J. P. Bell (Co.), Lynchburg, VA, USA                                         |
| (Matthew) Bender (& Co., Inc.), New York, NY, USA                            |
| W. A. Benjamin (Inc.), New York, NY, USA                                     |
| Benjamin Cummings (Publishing Co.), Redwood City, CA, USA                    |
| (Ernest) Benn (Ltd.), London, U.K.                                           |
| (Charles A.) Bennett (Co.), Peoria, IL, USA                                  |
| Benziger (Brothers, Inc.), New York, NY, USA                                 |
| (Librairie Polytechnique Charles) Beranger, Paris, France                    |
| Berlinische Verlagsanstalt, Berlin, Germany                                  |
| Beuth Vertrieb, G.m.b.H., Berlin, Germany                                    |

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|--------------------------------------------------------------------------|
| Birkhäuser, Cambridge, MA, USA                                           |
| A. & C. Black (Ltd.), London, U.K.                                       |
| (Walter J.) Black (Inc.), Roslyn, NY, USA                                |
| Blackie (& Son, Ltd.), Glasgow, U.K.                                     |
| (Basil) Blackwell (& Mott, Ltd.), Oxford, U.K.                           |
| (William) Blackwood (& Sons, Ltd.), Edinburgh, U.K.                      |
| Blaisdell, London, U.K.                                                  |
| Blandford (Press. Ltd.), London, U.K.                                    |
| Blue Ribbon (Books, Inc.) New York, NY, USA                              |
| (Clark) Boardman (Co., Ltd.) New York, NY, USA                           |
| Bobbs-Merrill (Co., Inc.), Indianapolis, IN, USA                         |
| Bonniers (Inc.), New York, NY, USA                                       |
| A. (Albert) Bonniers Forlag, Stockholm, Sweden                           |
| (Thomas) Bouregy (& Co.), New York, NY, USA                              |
| (R. R.) Bowker, New Providence, NJ, USA                                  |
| Boyd & Fraser (Publishing Co.), Boston, MA, USA                          |
| (Charles T.) Branford (Co.), Newton Center, MA, USA                      |
| (George) Braziller (Inc.), New York, NY, USA                             |
| (E. J.) Brill, Leiden, The Netherlands                                   |
| British Book Centre (Inc.), New York, NY, USA                            |
| (F. A.) Brockhaus, Wiesbaden, Germany                                    |
| Brookings Institution, Washington, DC, USA                               |
| Brooks/Cole (Publishing Co.), Pacific Grove, CA, USA                     |
| William C. Brown (Co.), Dubuque, IA, USA                                 |
| Bruce (Publishing Co.), Milwaukee, WI, USA                               |
| Burns (Oates & Washbourne, Ltd.), London, U.K.                           |
| Butterworth (& Co., Ltd.), London, U.K.                                  |
|                                                                          |
| <b>C</b>                                                                 |
| Cambridge Univ. Press, Cambridge, U.K.                                   |
| (Jonathon) Cape (Ltd.), London, U.K.                                     |
| Carnegie Endowment (for International Peace), New York, NY, USA          |
| Carnegie Foundation (for the Advancement of Teaching), New York, NY, USA |
| Carnegie Press, Pittsburgh, PA, USA                                      |
| Cassell (& Co., Ltd.), London, U.K.                                      |
| Catholic Univ. of America Press, Washington, DC, USA                     |
| Caxton (Printers, Ltd.), Caldwell, ID, USA                               |



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|------------------------------------------------------------------|
| Century House, Watkins Glen, NY, USA                             |
| (W. & R.) Chambers (Ltd.), Edinburgh, U.K.                       |
| Chandler (Publishing Co.), San Francisco, CA, USA                |
| Channel Press, New York, NY, USA                                 |
| Chapman & Grimes (Inc.), Boston, MA, USA                         |
| Chapman & Hall (Ltd.), London, U.K.                              |
| Chatto & Windus (Ltd.), London, U.K.                             |
| Chelsea (Publishing Co.), New York, NY, USA                      |
| Chemical Publishing (Co.), New York, NY, USA                     |
| Chilton (Co.), Philadelphia, PA, USA                             |
| Christian Science Publishing (Society), Boston, MA, USA          |
| Citadel (Press), New York, NY, USA                               |
| A. H. Clark (Co.), Glendale, CA, USA                             |
| Clarendon (Press), Oxford, U.K.                                  |
| Clark Univ. Press, Worcester, MA, USA                            |
| Collegiate (Press), Ames, IA, USA                                |
| (P. F.) Collier (& Son Corp.), New York, NY, USA                 |
| Collier-Macmillan (Ltd.), London, U.K.                           |
| Columbia Univ. Press, New York, NY, USA                          |
| Combat (Forces Press), Washington, DC, USA                       |
| Computer Science (Press), Rockville, MD, USA                     |
| Comstock (Publishing Associates), Ithaca, NY, USA                |
| Concordia (Publishing House), St. Louis, MO, USA                 |
| Concrete (Publications, Ltd.), London, U.K.                      |
| Cornell Univ. Press, Ithaca, NY, USA                             |
| Coward-McCann (Inc.), New York, NY, USA                          |
| CRC Press (Inc.), Boca Raton, FL, USA; (also Cleveland, OH, USA) |
| Criterion (Press, Inc.), Torrance, CA, USA                       |
| (Thomas Y.) Crowell (Co.), New York, NY, USA                     |
| Crower-Collier-Macmillan (Inc.), New York, NY, USA               |
| Crown (Publishers, Inc.), New York, NY, USA                      |
| <b>D</b>                                                         |
| (Peter) Davies (Ltd.), London, U.K.                              |
| (F. A.) Davis (Co.), Philadelphia, PA, USA                       |
| John Day (Co., Inc.), New York, NY, USA                          |
| (John) De Graff (Inc.), Tuckahoe, NY, USA                        |
| Delmar (Publishers, Inc.), Albany, NY, USA                       |

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|----------------------------------------------------------------------------------|
| (T. S.) Denison (& Co., Inc.), Minneapolis, MN, USA                              |
| (J. M.) Dent (& Sons, Ltd.), London, U.K.                                        |
| Devin-Adair (Co.), New York, NY, USA                                             |
| Dial (Press, Inc.), New York, NY, USA                                            |
| Digital (Press, Inc.), Bedford, MA, USA                                          |
| Dodd, Mead (& Co., Inc.), New York, NY, USA                                      |
| Doubleday (& Co., Inc.), New York, NY, USA                                       |
| Dover (Publications, Inc.), New York, NY, USA                                    |
| Dow Jones-Irwin (Inc.), Homewood, IL, USA                                        |
| (Frederick J.) Drake (& Co., Inc.), Chicago, IL, USA                             |
| Dryad (Press), Leicester, U.K.                                                   |
| (Gerald) Duckworth (& Co., Ltd.), London, U.K.                                   |
| Duke Univ. Press, Durham, NC, USA                                                |
| Duncker & Humblet, Berlin, Germany                                               |
| Dunod, Paris, France                                                             |
| P. Dupont, Paris, France                                                         |
| (E. P.) Dutton (& Co., Inc.), New York, NY, USA                                  |
| <b>E</b>                                                                         |
| Edinburgh House (Press), London, U.K.                                            |
| Educational Technology (Publications), Englewood Cliffs, NJ, USA                 |
| (J. W.) Edwards (Publisher, Inc.), Ann Arbor, MI, USA                            |
| Eldon (Press, Ltd.), London, U.K.                                                |
| Elsevier (Science Publishing Co.), Amsterdam, The Netherlands; New York, NY, USA |
| Emerson (Books, Inc.), New York, NY, USA                                         |
| Encyclopedia Britannica (Inc.), Chicago, IL, USA                                 |
| Engineering Pub. (Inc.), Elizabeth, NJ, USA                                      |
| (W.) Englemann, Leipzig, Germany                                                 |
| <b>F</b>                                                                         |
| Fairchild (Publications, Inc.), New York, NY, USA                                |
| Farrar, Straus (& Giroux, Inc.), New York, NY, USA                               |
| (F. W.) Faxon (Inc.), Boston, MA, USA                                            |
| (Carl) Fischer (Inc.), New York, NY, USA                                         |
| Fleet (Publishing Corp.), New York, NY, USA                                      |
| Follett (Publishing Co.), Chicago, IL, USA                                       |
| Foundation (Press, Inc.), New York, NY, USA                                      |
| Franey (& Co., Inc.), London, U.K.                                               |
| (W.H.) Freeman (and Co.), San Francisco, CA, USA                                 |

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|-------------------------------------------------------|
| Free Press, New York, NY, USA                         |
| (Samuel) French (Inc.), New York, NY, USA             |
| Friedlander & Sohn, Berlin, Germany                   |
| Friendship Press, New York, NY, USA                   |
| Funk & Wagnalls (Co.), New York, NY, USA              |
| Futura (Publishing Co., Inc.), Mt. Kisco, NY, USA     |
| <b>G</b>                                              |
| (W. J.) Gage (Ltd.), London, U.K.                     |
| Gale & Polden (Ltd.), London, U.K.                    |
| Garden City Books, New York, NY, USA                  |
| Garland (Publishing, Inc.), New York, NY, USA         |
| Garrett (& Massie, Inc.), Richmond, VA, USA           |
| Gauthier-Villars, Paris, France                       |
| (Bernard) Geis (Associates), New York, NY, USA        |
| George Mason Univ. Press, Fairfax, VA, USA            |
| Globe Book (Co., Inc.), New York, NY, USA             |
| Golden Cockerel (Press, Inc.), London, U.K.           |
| Golden (Press, Inc.), New York, NY, USA               |
| (Victor) Gollancz (Ltd.), London, U.K.                |
| Goodheart-Willcox (Co.), Homewood, IL, USA            |
| Gordon & Breach (Publishers, Inc.), New York, NY, USA |
| Gower (Medical Pub.), New York, NY, USA               |
| GPO (Government Printing Office), Washington, DC, USA |
| Greenberg (Publishers, Inc.), New York, NY, USA       |
| Greystone (Press), New York, NY, USA                  |
| (Charles) Griffin (& Co., Inc.), London, U.K.         |
| Grolier Club, New York, NY, USA                       |
| Grolier (Inc.), New York, NY, USA                     |
| Grosset & Dunlap (Inc.), New York, NY, USA            |
| Grove (Press), New York, NY, USA                      |
| Grune & Stratton (Inc.), New York, NY, USA            |
| Gulf (Publishing Co.), Houston, TX, USA               |
| Gurney (& Jackson), London, U.K.                      |
| <b>H</b>                                              |
| Hafner (Publishing Co.), New York, NY, USA            |
| E. M. Hale (& Co.), Eau Claire, WI, USA               |
| Halsted (Press), New York, NY, USA                    |

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|------------------------------------------------------|
| Hammond (Inc.), Maplewood, NJ, USA                   |
| Harcourt Brace Jovanovich, Orlando, FL, USA          |
| (A.) Harleben, Vienna, Austria                       |
| Harper & Row, New York, NY, USA                      |
| Harper Collins, New York, NY, USA                    |
| W. E. Harrison (& Sons), Ipswich, U.K.               |
| Harrison (& Sons, Ltd.), London, U.K.                |
| Harvard Univ. Press, Cambridge, MA, USA              |
| Hastings (House, Publishers), New York, NY, USA      |
| Hawthorn (Books, Inc.), New York, NY, USA            |
| Hayden (Book Co.), New York, NY, USA                 |
| (D. C.) Heath (and Co.), Boston, MA, USA             |
| Heath, Cranton (Ltd.), London, U.K.                  |
| (W.) Heffer (& Sons, Ltd.), Cambridge, U.K.          |
| (William) Heinemann (Ltd.), London, U.K.             |
| Helicon (Press, Inc.), Baltimore, MD, USA            |
| Hemisphere (Publishing Corp.), Bristol, PA, USA      |
| (B.) Herder (Book Co.), St. Louis, MO, USA           |
| Heritage (Press), New York, NY, USA                  |
| Hermann & Cie, Paris, France                         |
| Hermitage (House, Inc.), New York, NY, USA           |
| Hill & Wang (Inc.), New York, NY, USA                |
| Hindawi, Cairo, Egypt; New York, NY, USA             |
| H. M. Stationary Office, London, U.K.                |
| Hodder (& Stroughton, Ltd.), London, U.K.            |
| (Paul B.) Hoeber, New York, NY, USA                  |
| Hogarth (Press, Ltd.), London, U.K.                  |
| Holiday (House, Inc.), New York, NY, USA             |
| Holt, Rinehart and Winston (Inc.), New York, NY, USA |
| Horizon (Press, Inc.), New York, NY, USA             |
| Houghton Mifflin (Co.), Boston, MA, USA              |
| Humanities Press (Inc.), New York, NY, USA           |
| (Bruce) Humphries (Inc.), New York, NY, USA          |
| Hutchinson (& Co., Publisher, Ltd.), London, U.K.    |
| Hyperion (Press, Inc.), New York, NY, USA            |
| <b>I</b>                                             |
| IEEE Comput. Soc. Press, Los Alamitos, CA, USA       |

|                                                             |
|-------------------------------------------------------------|
| IEEE Press, Piscataway, NJ, USA                             |
| Indiana Univ. Press, Bloomington, IN, USA                   |
| Industrial Press, New York, NY, USA                         |
| Industrial (Publications, Inc.), Chicago, IL, USA           |
| Inst. for Advanced Studies, Princeton, NJ, USA              |
| Instrum. Soc. Amer., Research Triangle Park, NC, USA        |
| International Labor Office, Washington, DC, USA             |
| International Publishers (Co., Inc.), New York, NY, USA     |
| International Textbook (Co.), Scranton, PA, USA             |
| International Universities (Press, Inc.), New York, NY, USA |
| Interscience (Publishers), New York, NY, USA                |
| IOS Press, Amsterdam, The Netherlands                       |
| Iowa State Univ. Press, Ames, IA, USA                       |
| Iroquois (Publishing Co., Inc.), Columbus, OH, USA          |
| (Richard D.) Irwin (Inc.), Homewood, IL, USA                |
| <b>J</b>                                                    |
| JAI Press, Greenwich, CT, USA                               |
| Jarrolds (Publishers, Ltd.), London, U.K.                   |
| The Johns Hopkins Univ. Press, Baltimore, MD, USA           |
| Jones & Bartlett, Boston, MA, USA                           |
| Jossey-Bass (Inc.), San Francisco, CA, USA                  |
| Julian (Press, Inc.), New York, NY, USA                     |
| Juta (& Co., Ltd.), Cape Town, South Africa                 |
| <b>K</b>                                                    |
| (Willibald) Keller, Leipzig, Germany                        |
| (P. J.) Kenedy (& Sons), New York, NY, USA                  |
| King's Crown (Press), New York, NY, USA                     |
| Kluwer (Academic), Norwell, MA, USA (also, Boston, MA, USA) |
| Kluwer-Nijhoff (Publishing), Norwell, MA, USA               |
| (W.) Knapp Verlag, Dusseldorf, Germany                      |
| Knickerbocker Press, New York, NY, USA                      |
| Knight (Publishers, Inc.), New York, NY, USA                |
| (Alfred A.) Knopf, New York, NY, USA                        |
| Krieger (Publishing Co.), Melbourne, FL, USA                |
| (Alfred) Kroener, Stuttgart, Germany                        |
| (Edward) Kummer, Leipzig, Germany                           |
| <b>L</b>                                                    |

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|---------------------------------------------------------------------|
| Laidlaw (Brothers, Inc.), River Forest, IL, USA                     |
| Longman (Publishing Group), White Plains, NY, USA                   |
| <b>M</b>                                                            |
| Macmillan (Inc.), New York, NY, USA                                 |
| Marcel Dekker (Inc.), New York, NY, USA                             |
| Materials Research Soc., Pittsburgh, PA, USA                        |
| Matrix, Beaverton, OR, USA                                          |
| McGraw-Hill (Inc.), New York, NY, USA                               |
| MIT Press, Cambridge, MA, USA                                       |
| Morgan & Claypool (Publishers), San Rafael, CA, USA                 |
| Morgan Kaufmann (Publishers, Inc.), San Mateo, CA, USA              |
| (The C. V.) Mosby (Co.), St. Louis, MO, USA                         |
| Muhlenbert Press, Philadelphia, PA, USA                             |
| J. Murray, London, U.K.                                             |
| Murray Hill Books, New York, NY, USA                                |
| Museum of Modern Art, New York, NY, USA                             |
| <b>N</b>                                                            |
| National Academy of Sciences–Nat. Res. Council, Washington, DC, USA |
| National Academy Press, Washington, DC, USA                         |
| National Education Association, Washington, DC, USA                 |
| National Geographic Society, Washington, DC, USA                    |
| National Industrial Conference Board, Inc., New York, NY, USA       |
| Naval Inst. Press, Annapolis, MD, USA                               |
| Naylor (Co.), San Antonio, TX, USA                                  |
| C. C. Nelson (Publishing Co.), Appleton, WI, USA                    |
| (Thomas) Nelson (& Sons), Camden, NJ, USA                           |
| New American Library of World Literature (Inc.), New York, NY, USA  |
| New Directions, New York, NY, USA                                   |
| New York Graphic (Society), Greenwich, CT, USA                      |
| New York Univ. Press, New York, NY, USA                             |
| Noble (& Noble, Publishers, Inc.), New York, NY, USA                |
| Nonesuch (Library, Ltd.), London, U.K.                              |
| Noonday (Press), New York, NY, USA                                  |
| (P.) Noordhoff (N. V.), Gronigen, The Netherlands                   |
| North Holland, Amsterdam, The Netherlands                           |
| (W. W.) Norton (& Co.), New York, NY, USA                           |
| Nova (Science Publishers), Commack, NY, USA                         |

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|------------------------------------------------------------|
| Now (Publishers), Boston, MA, USA                          |
| Noyes (Publications), Park Ridge, NJ, USA                  |
| <b>O</b>                                                   |
| (Ivan) Obolensky (Inc.), New York, NY, USA                 |
| Oceana (Publications, Inc.), Dobbs Ferry, NY, USA          |
| Odyssey (Press, Inc.), New York, NY, USA                   |
| Ohio State Univ. Press, Columbus, OH, USA                  |
| R. Oldenbourg-Verlag, Munich, Germany                      |
| Oliver & Boyd (Ltd.), Edinburgh, U.K.; London, U.K.        |
| Open Court (Publishing Co.), La Salle, IL, USA             |
| Orange Judd (Publishing Co., Inc.), New York, NY, USA      |
| Orell Fussli-Verlag, Zurich, Switzerland                   |
| Orion (Press, Inc.), New York, NY, USA                     |
| Oxford, New York, NY, USA                                  |
| Oxford Book (Co., Inc.), New York, NY, USA                 |
| Oxford Science (Publications), Oxford, U.K.                |
| Oxford Univ. Press, London, U.K. (also, New York, NY, USA) |
| <b>P</b>                                                   |
| (L. C.) Page (& Co.), Boston, MA, USA                      |
| Pageant Books (Inc.), New York, NY, USA                    |
| Pantheon Books (Inc.), New York, NY, USA                   |
| Parents' Inst. (Inc.), Baltimore, MD, USA                  |
| Parthenon (Publ. Group), Park Ridge, NJ, USA               |
| Paul Parey Verlag, Berlin, Germany                         |
| Pellegrini & Cudahy, New York, NY, USA                     |
| Penguin (Books), Baltimore, MD, USA                        |
| Peninsula (Publishing), Los Altos, CA, USA                 |
| (The William) Penn (Publishing Corp.), New York, NY, USA   |
| Penn. State Univ. Press, University Park, PA, USA          |
| Pentech, Mountain View, CA, USA                            |
| Penton (Publishing Co.), Cleveland, OH, USA                |
| (Peter) Peregrinus, Stevenage, U.K.                        |
| Pergamon (Press, Inc.), New York, NY, USA                  |
| Phaidon (Press, Ltd.), London, U.K.                        |
| Pharos Editions, London, U.K.                              |
| (George) Philip (& Sons, Ltd.), London, U.K.               |
| Philosophical Library (Inc.), New York, NY, USA            |

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|-------------------------------------------------------------------------------------|
| Pitman (Publishing Corp.), New York, NY, USA                                        |
| Sir Isaac Pitman (& Sons, Ltd.), London, U.K.                                       |
| Platt & Monk (Co., Inc.), New York, NY, USA                                         |
| Plays (Inc.), Boston, MA, USA                                                       |
| Pleiad Press, New York, NY, USA                                                     |
| Plenum (Press, Inc.), New York, NY, USA                                             |
| Popular Mechanics (Press), New York, NY, USA                                        |
| (Frederick A.) Praeger (Inc.), New York, NY, USA                                    |
| Prentice-Hall (Inc.), Englewood Cliffs, NJ, USA (also, Upper Saddle River, NJ, USA) |
| Princeton Univ. Press, Princeton, NJ, USA                                           |
| Public Affairs Press, Washington, DC, USA                                           |
| Public School (Publishing Co.), Bloomington, IL, USA                                |
| (G. P.) Putnam ('s Sons), New York, NY, USA                                         |
| Putnam (& Co., Ltd.), London, U.K.                                                  |
| PWS-Kent (Publishing Co.), Boston, MA, USA                                          |
| <b>Q</b>                                                                            |
| Quality (Press), Milwaukee, WI, USA                                                 |
| Quandt, Leipzig, Germany                                                            |
| Quelle und Meyer, G.m.b.H., Heidelberg, Germany                                     |
| <b>R</b>                                                                            |
| Rand McNally (& Co.), Skokie, IL, USA                                               |
| Random House (Inc.), New York, NY, USA                                              |
| Raven (Press), New York, NY, USA                                                    |
| (Henry) Regnery (Co.), Chicago, IL, USA                                             |
| (D.) Reidel, Amsterdam, The Netherlands                                             |
| (The Peter) P. Reilly (Co.), Philadelphia, PA, USA                                  |
| Reilly & Lee (Co.), Chicago, IL, USA                                                |
| Reinhold (Publishing Corp.), New York, NY, USA                                      |
| Research & Education (Assoc.), Piscataway, NJ, USA                                  |
| (Fleming H.) Revell (Co.), Westwood, NJ, USA                                        |
| Reynal (& Co.), New York, NY, USA                                                   |
| Reynal & Hitchcock (Inc.), New York, NY, USA                                        |
| Rice Univ. Press, Houston, TX, USA                                                  |
| Richards Press (Ltd.), London, U.K.                                                 |
| (John Francis) Rider (Publisher, Inc.), New York, NY, USA                           |
| Rinehart (& Co.), New York, NY, USA                                                 |
| Ronald (Press Co.), New York, NY, USA                                               |



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|---------------------------------------------------------|
| Routledge (Peterson & Co.), Evanston, IL, USA           |
| Roy (Publishers), New York, NY, USA                     |
| Russell Sage (Foundation), New York, NY, USA            |
| Rutgers Univ. Press, New Brunswick, NJ, USA             |
| Ryerson Press, Toronto, ON, Canada                      |
| <b>S</b>                                                |
| SAE (Soc. Automotive Eng.), Warrendale, PA              |
| Sage, Newbury Park, CA, USA                             |
| St. Martin's (Press, Inc.), New York, NY, USA           |
| (Howard W.) Sams (& Co.), Indianapolis, IN, USA         |
| (Benjamin H.) Sanborn (& Co.), Chicago, IL, USA         |
| San Francisco Press, San Francisco, CA, USA             |
| (W. B.) Saunders (Co.), Philadelphia, PA, USA           |
| Scarecrow (Press, Inc.), New York, NY, USA              |
| (G.) Schirmer (Inc.), New York, NY, USA                 |
| (Henry) Schuman (Inc., Publishers), New York, NY, USA   |
| Science Research (Associates, Inc.), Chicago, IL, USA   |
| Scientific (Press, Inc.), San Francisco, CA, USA        |
| Scientific Book (Corp.), New York, NY, USA              |
| SciTech, Rijeka, Croatia                                |
| W. R. Scott (Inc.), New York, NY, USA                   |
| Scott, Foresman (& Co.), Glenview, IL, USA              |
| Scott (Publications, Inc.), New York, NY, USA           |
| (Charles) Scribner, New York, NY, USA                   |
| Seabury (Press, Inc.), New York, NY, USA                |
| (Martin) Secker & Warburg (Ltd.), London, U.K.          |
| Sergel & Hempel, Brunswick, Germany                     |
| A. W. Shaw (Co.), Chicago, IL, USA                      |
| Shaker, Aachen, Germany                                 |
| Sheed & Ward (Ltd.), London, U.K.                       |
| Sheed & Ward (Inc.), New York, NY, USA                  |
| Shenandoah (Publishing House, Inc.), Strasburg, VA, USA |
| Sheridan (House, Inc.), Dobbs Ferry, NY, USA            |
| Shoe Lane (Publishing Co.), London, U.K.                |
| Shoe String Press (Inc.), Hamden, CT, USA               |
| SIAM (Soc. Ind. Appl. Math.), Philadelphia, PA, USA     |
| Sidgewick & Jackson (Ltd.), London, U.K.                |

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|-------------------------------------------------------------|
| Silver Burdett (Co.), Morristown, NJ, USA                   |
| Simmons-Boardman (Publishing Corp.), New York, NY, USA      |
| Simon and Schuster (Inc.), New York, NY, USA                |
| (L. W.) Singer (Co., Inc.), Syracuse, NY, USA               |
| (Thomas) Skinner (of Canada, Ltd.), Montreal, PQ, Canada    |
| (Thomas) Skinner (& Co.), New York, NY, USA                 |
| Skira (International Corp.), New York, NY, USA              |
| (William) Sloane (Associates), New York, NY, USA            |
| SME (Soc. Manufact. Eng.), Dearborn, MI, USA                |
| Richard R. Smith (Co. Inc.), Peterborough, NH, USA          |
| Social Sci. Res. Council, New York, NY, USA                 |
| Soncino (Press, Ltd.), London, U.K.                         |
| Southern Methodist Univ. Press, Dallas, TX, USA             |
| South-Western (Publishing Co.), Cincinnati, OH, USA         |
| Spartan (Books), Washington, DC, USA                        |
| SPIE (Int. Soc. Opt. Eng.), Bellingham, WA, USA             |
| Springer-Verlag, New York; Berlin, Germany; Vienna, Austria |
| Stackpole (Co.), Harrisburg, PA, USA                        |
| Standard & Poor's (Corp.), New York, NY, USA                |
| Standard (Publishing Co.), Cincinnati, OH, USA              |
| Stanford Univ. Press, Stanford, CA, USA                     |
| Staples (Press, Ltd.), London, U.K.                         |
| Stechert-Hafner (Inc.), New York, NY, USA                   |
| Steck-Vaughn (Co.), Austin, TX, USA                         |
| Sterling (Publishing Co., Inc.), New York, NY, USA          |
| Stockton (Press), New York, NY, USA                         |
| (Frederick A.) Stokes (Co.), Philadelphia, PA, USA          |
| Studio (Publications, Inc.), New York, NY, USA              |
| Alan Swallow, Denver, CO, USA                               |
| <b>T</b>                                                    |
| TAB (Books), New York, NY, USA                              |
| Talbot (Press, Ltd.), Dublin, Ireland                       |
| Taplinger (Publishing Co., Inc.), New York, NY, USA         |
| Taylor & Francis, New York, NY, USA                         |
| Technical Press (Ltd.), Surrey, U.K.                        |
| Textbooks (Ltd.), London, U.K.                              |
| (W.) Thacker (& Co.), London, U.K.                          |

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|------------------------------------------------------|
| Charles C. Thomas (Publishers), Springfield, IL, USA |
| Thomas Law Book (Co.), St. Louis, MO, USA            |
| Thomas Publishing (Co.), New York, NY, USA           |
| Time-Warner (Inc.), New York, NY, USA                |
| Transactions Books, New Brunswick, NJ, USA           |
| Transatlantic Arts (Inc.), New York, NY, USA         |
| Triangle Books, New York, NY, USA                    |
| Tudor (Publishing Co.), New York, NY, USA            |
| Tupper & Love (Inc.), Doraville, GA, USA             |
| (Charles E.) Tuttle (Co., Inc.), Rutland, VT, USA    |
| Twayne (Publishers, Inc.), New York, NY, USA         |
| Twentieth Century (Fund, Inc.), New York, NY, USA    |
| <b>U</b>                                             |
| Underwriter's Lab., Chicago, IL, USA                 |
| Frederick Unger (Publishing Co.), New York, NY, USA  |
| Univelt (Inc.), San Diego, CA                        |
| Univ. of California Press, Berkeley, CA, USA         |
| Univ. of Chicago Press, Chicago, IL, USA             |
| Univ. of Connecticut Press, Storrs, CT, USA          |
| Univ. of Florida Press, Gainesville, FL, USA         |
| Univ. of Illinois Press, Urbana, IL, USA             |
| Univ. of Iowa Press, Iowa City, IA, USA              |
| Univ. of Kentucky Press, Lexington, KY, USA          |
| Univ. of London Press, (Ltd.), London, U.K.          |
| Univ. of Michigan Press, Ann Arbor, MI, USA          |
| Univ. of Minnesota Press, Minneapolis, MN, USA       |
| Univ. of Missouri Press, Columbia, MO, USA           |
| Univ. of Nebraska Press, Lincoln, NE, USA            |
| Univ. of New Mexico Press, Albuquerque, NM, USA      |
| Univ. of North Carolina Press, Chapel Hill, NC, USA  |
| Univ. of Notre Dame Press, Notre Dame, IN, USA       |
| Univ. of Oklahoma Press, Norman, OK, USA             |
| Univ. of Pennsylvania Press, Philadelphia, PA, USA   |
| University Science (Books), Mill Valley, CA, USA     |
| Univ. of Pittsburgh Press, Pittsburgh, PA, USA       |
| Univ. of Texas Press, Austin, TX, USA                |
| Univ. of Washington Press, Seattle, WA, USA          |

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| Univ. of Wisconsin Press, Madison, WI, USA             |
| Univ. of Virginia Press, Charlottesville, VA, USA      |
| (T. Fisher) Unwin, London, U.K.                        |
| <b>V</b>                                               |
| Vanguard (Press, Inc.), New York, NY, USA              |
| (D.) Van Nostrand (and Co., Inc.), New York, NY, USA   |
| VCH (Publishers, Inc.), New York, NY, USA              |
| Viking (Press), New York, NY, USA                      |
| <b>W</b>                                               |
| Wadsworth (Publishing Co.), Belmont, CA, USA           |
| J. F. Wagner (Inc.), New York, NY, USA                 |
| (George) Wahr (Publishing Co.), Ann Arbor, MI, USA     |
| (Frederick) Warne (& Co., Inc.), New York, NY, USA     |
| Warwick & York (Inc.), Baltimore, MD, USA              |
| (Ives) Washburn (Inc.), New York, NY, USA              |
| Watson-Guptill (Publications, Inc.), New York, NY, USA |
| (C. A.) Watts (& Co., Ltd.), London, U.K.              |
| Franklin Watts (Inc.), New York, NY, USA               |
| Wayne State Univ. Press, Detroit, MI, USA              |
| Webb (Publishing Co.), St. Paul, MN, USA               |
| Webster (Publishing Co.), St. Louis, MO, USA           |
| Wellesley-Cambridge (Press), Cambridge, MA, USA        |
| West (Publishing Co.), St. Paul, MN, USA               |
| Westminster (Press), Philadelphia, PA, USA             |
| Westview (Press, Inc.), Boulder, CO, USA               |
| Whiteside (Inc.), New York, NY, USA                    |
| A. Whitman (& Co.), Chicago, IL, USA                   |
| Whitman (Publishing Co.), Racine, WI, USA              |
| Whittlesey House, New York, NY, USA                    |
| W. A. Wilde (Co.), Natick, MA, USA                     |
| (John) Wiley (& Sons, Inc.), Hoboken, NJ, USA          |
| Willett, Clark (& Co.), Chicago, IL, USA               |
| Williams & Nargate (Ltd.), London, U.K.                |
| Williams & Wilkins (Co.), Baltimore, MD, USA           |
| H. W. Wilson (Co.), New York, NY, USA                  |
| (William H.) Wire (& Co., Inc.), Union City, NJ, USA   |
| Wise (Book Co.), New York, NY, USA                     |

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|--------------------------------------------------------|
| (M.) Witmark (& Sons), New York, NY, USA               |
| (George) Wittenborn (Inc.), New York, NY, USA          |
| (William) Wood (& Co.), Baltimore, MD, USA             |
| World Book (Co.), New York, NY, USA                    |
| World (Publishing Co.), Cleveland, OH, USA             |
| World Scientific, Singapore                            |
| WSES, Crete, Greece                                    |
| (A. A.) Wyn (Inc.), New York, NY, USA                  |
| <b>Y</b>                                               |
| Yale Univ. Press, New Haven, CT, USA                   |
| Year (Inc.), New York, NY, USA                         |
| Year Book Medical (Publishers, Inc.), Chicago, IL, USA |
| (Thomas) Yoseloff (Inc.), New York, NY, USA            |
| <b>Z</b>                                               |
| Ziff-Davis (Publishing Co.), Chicago, IL, USA          |

### C. Abbreviations of Periodicals With Non-English Titles

|                                             |                                                  |
|---------------------------------------------|--------------------------------------------------|
| <b>A</b>                                    | Acta Phys. Sin.                                  |
| Acad. Serbe Sci. Arts Glas Cl. Sci. Tech.   | Acta Phys. Slovaca                               |
| Acta Acust.                                 | Acta Politec. Mex.                               |
| Acta Astron. (Poland)                       | Acta Polytech. Scand. Appl. Phys. Ser.           |
| Acta Astron. Sin. (China)                   | Acta Polytech. Scand. Chem. Technol.             |
| Acta Astronaut. (U.K.)                      | Metall. Ser.                                     |
| Acta Astrophys. Sin. (China)                | Acta Polytech. Scand. Electr. Eng. Ser.          |
| Acta Autom. Sin.                            | Acta Polytech. Scand. Math. Comput. Sci. Ser.    |
| Acta Cienc. Indica Math.                    | Acta Polytech. Scand. Mech. Eng. Ser.            |
| Acta Cienc. Indica Phys.                    | Acta Seismol. Sin.                               |
| Acta Crystallogr. A, Found. Crystallogr.    | Acta Tech. Acad. Sci. Hung.                      |
| Acta Crystallogr. B, Struct. Sci.           | Acta Tech. CSAV                                  |
| Acta Crystallogr. C, Cryst. Struct. Commun. | Acustica                                         |
| Acta Electron. (France)                     | (AEU) Arch. Elektr. Ubertragung                  |
| Acta Cyberno                                | Akust. Zh.                                       |
| Acta Electron. Sin. (China)                 | Algorithmica                                     |
| Acta Geod. Geophys. Montan. Hung.           | Alta Freq.                                       |
| Acta Geophys. Pol.                          | An. Acad. Bras. Cienc.                           |
| Acta Geophys. Sin. (China)                  | An. Fis.                                         |
| Acta Geophys. Sin. (USA)                    | An. Mec. Electr.                                 |
| Acta Metall.                                | Angew. Inform.                                   |
| Acta Mex. Cienc. Tecnol.                    | Ann. Inst. Henri Poincare Phys. Theor.           |
| Acta Phys. Hung.                            | Ann. Soc. Sci. Brux. I, Sci. Math. Astron. Phys. |
| Acta Phys. Pol. A                           | Arch. Elektr. Uebertrag. (AEU) (before 1971)     |
| Acta Phys. Pol. B                           | Arch. Elektron. Uebertrag. Tech. (after 1971)    |

|                                                           |
|-----------------------------------------------------------|
| Arch. Elektrotech. (Poland)                               |
| Arch. Elektrotech. (Germany)                              |
| Ark. Fys. Semin. Trondheim                                |
| Astrofizika                                               |
| Astron. Nachr. (Germany)                                  |
| Astron. Tidsskr.                                          |
| Astron. Vestn.                                            |
| Astron. Zh.                                               |
| Atomwirtsch.-Atomtech.                                    |
| Atti Accad. Sci. Ist. Bologna Cl. Sci. Fis.<br>Rend. XIII |
| Atti Accad. Sci. Torino I, Cl. Sci. Fis. Math. Nat.       |
| Autom. Strum.                                             |
| Autom. Tech. Prax.                                        |
| Automatica                                                |
| Automatie                                                 |
| Automatika                                                |
| Automatisierungstechnik                                   |
| Automatizace                                              |
| Automedica                                                |
| Avtom. Telemekh.                                          |
| Avtom. Vychisl. Tekh.                                     |
| Avtomatika                                                |
| Avtometriya                                               |
| <b>B</b>                                                  |
| Ber. Bunsenges. Phys. Chem.                               |
| Biofizika                                                 |
| Biometrika                                                |
| Boll. Geofis. Teor. Appl.                                 |
| Bull. Acad. Serbe Sci. Arts cl. Sci. Tech.                |
| Bull. Annu. Soc. Suisse Chronom. Lab. Suisse.             |
| Rech. Horlog.                                             |
| Bull. Cl. Sci. Acad. R. Belg.                             |
| Bull. Dir. Etud. Rech. A                                  |
| Bull. Dir. Etud. Rech. B                                  |
| Bull. Dir. Etud. Rech. C                                  |
| Bull. Liaison Rech. Inform. Autom.                        |
| Bur. Etud. Autom.                                         |
| <b>C</b>                                                  |
| CFI-Ceram. Forum Int.-Ber. Dtsch. Keram. Ges.             |
| Chem. Scr.                                                |
| Ciel Terre                                                |
| Cybernetica                                               |
| <b>D</b>                                                  |
| Deut. Hydrogr. Z.                                         |
| Dokl. Akad. Nauk SSSR                                     |
| <b>E</b>                                                  |
| Electroacoustique                                         |
| Electrochim. Acta                                         |
| Electrochim. Metal.                                       |
| Elektor Electron.                                         |
| Elektr. Bahnen                                            |
| Elektr. Energ.-Tech.                                      |
| Elektr. Masch.                                            |

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| Elektr. Stn.                    |
| Elektrichestvo                  |
| Elektrie                        |
| Elektrizitaetswirtschaft        |
| Elektro                         |
| Elektro-Anz.                    |
| Elektro-Jahr                    |
| Elektrokhimiya                  |
| Elektron                        |
| Elektron Int.                   |
| Elektron. Entwikl.              |
| Elektron. Ind                   |
| Elektron. J.                    |
| Elektron. Prax.                 |
| Elektron. Tekh.                 |
| Elektronica                     |
| Elektronik                      |
| Elektronika                     |
| Elektroniker                    |
| Elektronikschau                 |
| Elektrosvyaz                    |
| Elektrotech. Cas.               |
| Elektrotech. Inf. Tech.         |
| Elektrotech. Obz.               |
| Elektrotechnik                  |
| Elektrotechnik (Czechoslovakia) |
| Elektrotechnik (Switzerland)    |
| Elektrotechnik (Germany)        |
| Elektrotechnika                 |
| Elektrotehnika, Zagreb          |
| Elektrotekhnik                  |
| Elektroteknikeren               |
| Elektrowaerme Int. B.           |
| Elettrificazione                |
| Elettron. Oggi                  |
| Elettron. Telecomun.            |
| Elettrotecnica                  |
| Elek. Med Aktuell Elektron.     |
| Eltechnik                       |
| Energ. Atomtech.                |
| Energ. Elettr.                  |
| Energetica                      |
| Energetik                       |
| Energetika                      |
| Energetyka                      |
| Energia Nuclear                 |
| Energie Technik (Germany)       |
| Energie Technik (Switzerland)   |
| Entropie                        |
| ETZ                             |
| ETZ Arch.                       |
| <b>F</b>                        |
| Feingeratetechnik               |
| Feinw. Tech. Messtech.          |

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|-------------------------------------------|
| Fert. Tech. Betr.                         |
| Fis. Tecnol.                              |
| Fiz. Khim. Obrab. Mater.                  |
| Fiz. Met. Metalloved                      |
| Fiz. Nizk. Temp.                          |
| Fiz. Plazmy                               |
| Fiz. Tekh. Poluprovodn.                   |
| Fiz. Tverd. Tela                          |
| Fiz.-Khim. Mekh. Mater.                   |
| Fizika                                    |
| Forsch.-Ber. Landes Nordrh.-Westfal.      |
| Frequenz                                  |
| Fys. Tidsskr.                             |
| <b>G</b>                                  |
| G. Fis.                                   |
| Geliotekhnika                             |
| Geochim. Cosmochim. Acta                  |
| <b>H</b>                                  |
| Haerterei-Tech. Mitt.                     |
| Helv. Chim. Acta                          |
| Helv. Med. Acta                           |
| Helv. Phys. Acta                          |
| Hochfreq. Electroakust                    |
| Hoppe-Seylers Z. Physiol. Chem.           |
| <b>I</b>                                  |
| Inf. Elektron.                            |
| Inf. Elettron.                            |
| Inform. Forsch. Entwickl.                 |
| Inform. Spektrum                          |
| Inform.-Fachber.                          |
| Informatie                                |
| Informatik                                |
| Informatologia Yugosl.                    |
| Informatyka                               |
| Infowelt                                  |
| Ing. Electr. Mec.                         |
| Ing. Mec. Electr.                         |
| Ing.-Arch.                                |
| Inzh.-Fiz. Zh.                            |
| Izmer. Tekh.                              |
| Izv. Akad. Nauk Arm. SSR Ser. Tekh. Nauk  |
| Izv. Akad. Nauk SSSR Energ. Transp.       |
| Izv. Akad. Nauk SSSR Fiz. Atmos. Okeana   |
| Izv. Akad. Nauk SSSR Fiz. Zemli           |
| Izv. Akad. Nauk SSSR Ser. Fiz.            |
| Izv. Vyssh. Uchebn. Zaved. Elektromekh.   |
| Izv. Vyssh. Uchebn. Zaved. Radioelektron. |
| Izv. Vyssh. Uchebn. Zaved. Radiofiz.      |
| <b>J</b>                                  |
| J. Chim Phys. Phys.-Chim Biol.            |
| <b>K</b>                                  |
| Kernenergie                               |
| Kernteknik                                |
| Khim. Fiz.                                |

|                                         |
|-----------------------------------------|
| Kibern. Vychisl. Tekh.                  |
| Kibernetika                             |
| Kristallografiya                        |
| Kvantovaya Elektron. Mosk.              |
| Kybernetes                              |
| Kybernetika                             |
|                                         |
| <b>M</b>                                |
| Med. Tek.                               |
| Mekh. Avtom. Proizvod.                  |
| Meres Autom.                            |
| Mesures                                 |
| Metallofizika                           |
| Metalloved. Term. Obrab. Met.           |
| Meteorol. Gidrol.                       |
| Meteorol. Rundsch.                      |
| Metrol. Apl.                            |
| Metrologia                              |
| Medel. Simul.                           |
| <b>N</b>                                |
| Nachr. Dok.                             |
| Nachr.tech. Elektron.                   |
| Naturwissentaften                       |
| Neue Tech.                              |
| Neue Tech. Buero                        |
| Nukleonika                              |
| Numer. Math.                            |
| Nuovo Cimento A                         |
| Nuovo Cimento B                         |
| Nouvo Cimento C                         |
| Nuovo Cimento D                         |
| <b>O</b>                                |
| Okeanologiya                            |
| Opt. Spektrosk.                         |
| Opt.-Mekh. Prom.                        |
| Optik                                   |
| <b>P</b>                                |
| Photogrammetria                         |
| Photonics Spectra                       |
| Pis'ma Astron. Zh.                      |
| Pis'ma Zh. Eksp. Teor. Fiz.             |
| Pis'ma Zh. Tekh. Fiz.                   |
| Poverkhn., Fiz. Khim. Mekh.             |
| Pr. Inst. Elektrotech.                  |
| Prib. Sist. Upr.                        |
| Prib. Tekh. Eksp.                       |
| Prikl. Mat. Mekh.                       |
| Prikl. Mekh.                            |
| Probl. Kibern.                          |
| Probl. Peredachi Inf.                   |
| Proc. K. Ned. Akad. Wet. B, Palaeontol. |
| Anthropol.                              |
| Programmirovanie                        |
| Prz. Elektrotech.                       |

|                                                                             |
|-----------------------------------------------------------------------------|
| Prz. Telekomun.                                                             |
| PT/Elektrotech. Elektron.                                                   |
| <b>R</b>                                                                    |
| Radio Fernsehen Elektron.                                                   |
| Radiotekh. Elektron.                                                        |
| Radiotekhnika Mosk.                                                         |
| Rev. Acad. Cienc. Zaragoza                                                  |
| Rev. Electrotec. (Argentina)                                                |
| Rev. Electrotec. (Spain)                                                    |
| Rev. Energ.                                                                 |
| Rev. Esp. Electron. Rev. Geofis.                                            |
| Ric. Autom.                                                                 |
| Ric. Spettrosc.                                                             |
| Robotersysteme                                                              |
| Rozpr. Electrotech.                                                         |
| <b>S</b>                                                                    |
| Sadhana                                                                     |
| Schweiz. Tech. Z.                                                           |
| Scientia                                                                    |
| Siemens Forsch. Entwickl. Ber.                                              |
| Sist. Autom.                                                                |
| Sitzungsber. Oester. Akad. Wiss. Math.-<br>Naturwiss. Kl. Abt. II (Austria) |
| Spectrochim. Acta A, Mol. Spectrosc.                                        |
| Spectrochim. Acta B, At. Spectrosc.                                         |
| Sprache Datenverarb.                                                        |
| Stanki Instrum.                                                             |
| Steklo Keram.                                                               |
| Svetotekhnika                                                               |
| <b>T</b>                                                                    |
| TE Int.                                                                     |
| Tech. Bull. Vevey                                                           |
| Tech. Mitt. Krupp (Engl. Ed.)                                               |
| Tech. Mitt. PTT                                                             |
| Tech. Mitt. RFZ                                                             |
| Technica                                                                    |
| Tecnica                                                                     |
| Teh. Fiz.                                                                   |
| Tehnika                                                                     |
| Tekh. Elektrodin.                                                           |
| Tekh. Kibern.                                                               |
| Tekh. Kino Telev.                                                           |
| Tekh. Misul                                                                 |
| Telekomunikacije                                                            |
| Teletronikk                                                                 |
| Teletechnik                                                                 |
| Teor. Mat. Fiz.                                                             |
| Teploeergetika                                                              |
| Teplofiz. Vvs. Temp.                                                        |
| Tidskr. Dok.                                                                |
| TN Nachr.                                                                   |
| Toute Electron.                                                             |

|                                                           |
|-----------------------------------------------------------|
| Tr. Inst. Teor. Astron.                                   |
| <b>U</b>                                                  |
| Ukr. Fiz. Zh.                                             |
| Usp. Fiz. Nauk                                            |
| <b>V</b>                                                  |
| Vak.-Tech.                                                |
| VDE Fachiber.                                             |
| VDI Z.                                                    |
| Vestn. Mashinostr.                                        |
| Vestn. Mosk. Univ. 15, Vychisl. Mat. Kibern.              |
| Vestn. Mosk. Univ. 3, Fiz. Astron.                        |
| Vesti Akad. Navuk BSSR Ser. Fiz. Energ. Navuk             |
| VGB Kraftwerkstech. (Ger. Ed.)                            |
| Vide Couches Minces                                       |
| Vistas Astron.                                            |
| Vopr. At. Nauki Tekh. Ser., Fiz. Radiats.                 |
| Povrezhdenii Radiats. Materialoved.                       |
| Vopr. At. Nauki Tekh. Ser., Obshch. Yad. Fiz.             |
| Vuoto Sci. Tecnol.                                        |
| <b>W</b>                                                  |
| Wiss. Z. Friedrich-Schiller-Univ. Jena                    |
| Nat.wiss. Reihe                                           |
| Wiss. Z. Karl-Marx-Univ. Leipz. Math.-<br>Nat.wiss. Reihe |
| Wiss. Z. Tech. Hochsch. Ilmenau                           |
| Wiss. Z. Tech. Univ. Dresd.                               |
| Wiss. Z. Tech. Univ. Karl-Marx-Stadt                      |
| <b>Y</b>                                                  |
| Yad. Fiz.                                                 |
| <b>Z</b>                                                  |
| Z. Angew. Math. Mech.                                     |
| Z. Angew. Math. Phys.                                     |
| Z. Met.kd.                                                |
| Z. Nat. Forsch. A, Phys. Phys. Chem. Kosmophys.           |
| Z. Oper. Res. A, Theor.                                   |
| Z. Oper. Res. B, Prax.                                    |
| Z. Phys.                                                  |
| Z. Phys. A, At. Nuclei                                    |
| Z. Phys. B, Condens. Matter                               |
| Z. Phys. C, Part Fields                                   |
| Z. Phys. Chem. Neue Folge                                 |
| Z. Phys. Chem., Leipz.                                    |
| Z. Phys. D, At. Mol. Clusters                             |
| Zavod. Lab.                                               |
| Zh. Eksp. Teor. Fiz.                                      |
| Zh. Fiz. Khim.                                            |
| Zh. Prikl. Mekh. Tekh. Fiz.                               |
| Zh. Prikl. Spektrosk.                                     |
| Zh. Tekh. Fiz.                                            |
| Zh. Vychisl. Mat. Mat. Fiz.                               |
| Zisin, J. Seismol. Soc. Jpn.                              |