

The following list of publications is given as a benefit to engineers worldwide to locate technical resources. The IEEE EMC Society provides no endorsement for any books listed below. If there are publications dealing with EMC and ESD not listed, please send a note to the webmaster for inclusion in a future update.

BOOKS – ACHIEVING EMC AND ESD CONTROL

1. ***Analysis of Multiconductor Transmission Lines***. Paul, C. R., John Wiley & Sons (1st ed.1994), (2nd ed. 2008).
2. ***Architectural Electromagnetic Shielding Handbook, A Design and Specification Guide***. Hemming, L.H., IEEE Press, 1992.
3. ***Cable Shielding for Electromagnetic Compatibility***. Tsaliovich, Anatoly, John Wiley and Sons, 1995.
4. ***Compatibility in Medical Equipment***. Kimmel, William D, and Daryl D. Gerke, *Electromagnetic* IEEE Press and Interpharm Press, 1995.
5. ***Computation of Lightning Protection***. Horvath, T., John Wiley & Sons, 1991.
6. ***Computer Circuits Electrical Design***. Poon, Ron K., Prentice Hall, 1995.
7. ***Control and Measurement of Unintentional Electromagnetic Radiation***. Bennett, W. Scott. John Wiley and Sons, 1997.
8. ***Controlling Conducted Emissions by Design***. J.C. Fluke, John Wiley and Sons, 1991.
9. ***Controlling Radiated Emissions by Design (2nd edition)***. Mardiguian, Michel. Kluwer, 2001.
10. ***Cookbook of EMI Fixes***. Mardiguian, Michel, Interference Control Technology, 1989.
11. ***Coupling of External Electromagnetic Fields to Transmission Lines***. Smith, Jr., A., John Wiley & Sons, 1977.
12. ***Coupling to Shielded Cables***. Vance, E.F., John Wiley & Sons, 1978.
13. ***Design of Shielded Enclosures: Cost-Effective Methods to Prevent EMI***. Gnecco, Louis T., Newnes, 2000.
14. ***Digital Design for Interference Specifications, 'A Practical Handbook for EMI Control' (2nd Edition)***. R. K. Keenan, and D.L. Terrell, The Keenan Corp., 1997.
15. ***Digital Design for Interference Specifications***. Keenan, R. Kenneth, The Keenan Corporation.
16. ***Electrical Overstress Protection for Electronic Devices***. Antinone, Robert J., et al, Noyes Publications, 1986.
17. ***Electromagnetic Anechoic Chambers-A Fundamental Design and Specification Guide***. Hemming, L. Wiley/IEEE Press. 2002
18. ***Electromagnetic Compatibility by Design (4th edition)*** Hartal, Oren, R&B Enterprises, 1996.
19. ***Electromagnetic Compatibility Design Guide***. Freeman, E.R. and Sachs, M., Artech House, 1982.
20. ***Electromagnetic Compatibility Handbook***. Violette, J. L. Norman and D. White, Michael F. Violette, Van Nostrand Reinhold, 1987.
21. ***Electromagnetic Compatibility in Medical Equipment***. Kimmel, William D, and Gerke, Daryl D., IEEE Press and Interpharm Press, 1995.
22. ***Electromagnetic Compatibility in Power Electronics***. Tihanyi, Laszlo, IEEE Press, 1995.
23. ***Electromagnetic Compatibility***. Goedbloed, Jasper, Prentice-Hall, 1990.
24. ***Electromagnetic Compatibility: Principles and Applications***. Weston, David A., Marcel Dekker, 1991.
25. ***Electromagnetic Control in Components and Devices, Volume 5***. Mardiguian, Michel, Interference Control Technologies, 1988.
26. ***Electromagnetic Interference Reduction in Electronic Systems***. Mills, Jeffrey P., PTR Prentice Hall, 1993.
27. ***Electromagnetic Shielding Handbook for Wired and Wireless EMC Applications***. Tsaliovich, Anatoly, Kluwer Academic Publishers, 1999.
28. ***Electromagnetics for Engineers (with Applications)***. Paul, C. R., John Wiley & Sons, 2004.
29. ***Electronic System Design: Interference and Noise Control Techniques***. Barnes, J.R., Prentice-Hall, 1987.
30. ***Electrostatic Damage in Electronics: Devices and Systems***. Greason, William D., John Wiley & Sons, 1987.

31. ***Electrostatic Discharge and Electronic Equipment - A Practical Guide for Designing to Prevent ESD Problems.*** Boxleitner, Warren, IEEE Press, 1989.
32. ***Electrostatic Discharge Control.*** McAteer, Owen J., McGraw-Hill, 1990.
33. ***Electrostatic Discharge: Understand, Simulate and Fix ESD Problems.*** Mardiguian, Michel, Interference Control Technologies, 1993.
34. ***EMC Analysis Methods and Computational Models.*** Tesche, Frederick M. and Michel Ianoz, and T. K., John Wiley & Sons, 1997.
35. ***EMC and the Printed Circuit Board-- Design, Theory, and Layout Made Simple.*** Montrose, Mark I., Wiley/IEEE Press, 1999.
36. ***EMC at Component and PCB Level.*** O'Hara, Martin, Newnes, 1998.
37. ***EMC for Product Designers (2nd edition),*** Williams, Tim, Newnes, 1996.
38. ***EMC for Systems and Installations.*** Williams, Tim, and Keith Armstrong, Newnes, 2000.
39. ***EMC: Electromagnetic Theory to Practical Design.*** Chatterton, P.A. and M.M., Houlden, John Wiley & Sons, 1991.
40. ***EMI Control in the Design of Printed Circuit Boards and Backplanes.*** White, D., Don White Consultants, 1981.
41. ***EMI Suppression Handbook: Communiques from the Trenches.*** Kimmel, William D. and Daryl D. Gerke, Seven Mountains Scientific, 1998.
42. ***EMI Troubleshooting Techniques.*** Mardiguian, Michel, McGraw-Hill, 2000.
43. ***EMI/EMC Computational Modeling Handbook (2nd edition).*** Archambeault, Bruce and Omar Ramahi, Colin Brench, Kluwer, 2001.
44. ***EMI/EMC: Selected Readings.*** Kodali, V. Prasad (editor) and Motohisa Kanda (editor), IEEE Press, 1996.
45. ***Engineering Electromagnetic Compatibility (2nd edition).*** Kodali, V. Prasad, IEEE Press, 2001.
46. ***ESD in Silicon Integrated Circuits.*** Amerasekera, Ajith and Charvaka Duvvury, John Wiley and Sons, 1996.
47. ***Grounding and Bonding, Volume 2.*** Mardiguian, Michel, Interference Control Technologies, 1988.
48. ***Grounding and Shielding in Facilities.*** R. Morrison and W.H. Lewis, John Wiley and Sons, 1990.
49. ***Grounding and Shielding Techniques (4th edition).*** R. Morrison, John Wiley and Sons, 1998.
50. ***Grounds for Grounding.*** Joffe, E.B. and K.S. Lock, John Wiley/IEEE Press, 2009.
51. ***Handbook for EMC Testing and Measurement.*** Morgan, David and Peter Peregrinus, IEE (UK), 1995.
52. ***Handbook of Electromagnetic Compatibility.*** Perez, Reinaldo (editor), Academic Press, 1995.
53. ***Handbook of Electromagnetic Materials.*** P. S. Neelakanta, CRC Press, 1995.
54. ***Handbook Series on Electromagnetic Interference and Compatibility Volume 3: EMI Control Methods and Techniques.*** White, D., Don White Consultants, 1973.
55. ***High Frequency Measurements and Noise in Electronic Circuits.*** Smith, Douglas C., Van Nostrand Reinhold, 1993.
56. ***High-Speed Digital Design: A Handbook of Black Magic.*** Johnson, Howard W. and Martin Graham, Prentice-Hall, 1993.
57. ***High-Speed Digital System Design: A Handbook of Interconnect Theory and Design Practices.*** Hall, S. and G. Hall and J. McCall, John Wiley and Sons, 2000.
58. ***High-Speed VLSI Interconnections: Modeling, Analysis and Simulation.*** Goel, A., John Wiley and Sons, 1994.
59. ***Interference Control in Computers and Microprocessor-Based Equipment.*** Mardiguian, Michel, Don White Consultants, 1984.
60. ***Interference Mitigation.*** Ghose, R.N., IEEE Press, 1996.
61. ***Introduction to Electromagnetic Compatibility.*** Paul, Clayton R., John Wiley & Sons, (1st ed. 1992), 2nd ed.-2006).
62. ***Lightning and Lightning Protection.*** Hart, William C., and Malone, Edgar W., Don White Consultants, 1988.
63. ***Lightning Protection of Aircraft.*** Fisher, and Plumer, Lightning Technologies, Inc.
64. ***Lightning Protection.*** R.H. Golde, Chemical Publishing Co., 1973.
65. ***Noise and Other Interfering Signals.*** Morrison, Ralph, John Wiley & Sons, 1992.

66. **Noise Control & Design Considerations in High Performance Electronic Circuits & Systems.** Violette, J. L. Norman, Violette Engineering Corp., 1993.
67. **Noise Control & Design Considerations in High Performance Electronic Circuits & Systems.** Violette, J. L. Norman, Violette Engineering Corp., 1993.
68. **Noise Reduction Techniques in Electronic Systems (2nd edition).** Ott, Henry W., John Wiley & Sons, 1988.
69. **Numerical Techniques for Microwaves and Millimeters Wave Passive Structures.** T. Itoh (editor), John Wiley & Sons, 1989.
70. **PCB Design for Real-World EMI Control.** Archambeault, Bruce R., Kluwer Academic Publishers, 2002.
71. **Power Line Filter Design for Switched-Mode Power Supplies.** Nave, M.J., John Wiley and Sons, 1991.
72. **Practical Design for Electromagnetic Compatibility.** Ficchi, Rocco F., Hayden Book Company, 1971.
73. **Principles and Techniques of Electromagnetic Compatibility.** Christopoulos, Christos, CRC Press, 1995.
74. **Principles of Electromagnetic Compatibility (3rd edition).** Keiser, Bernhard, Artech House, 1987.
75. **Printed Circuit Board Design Techniques for EMC Compliance-A Handbook for Designers, (2nd edition).** Montrose, Mark I., Wiley/IEEE Press, 2000.
76. **Problems and Solutions in Wireless Communications and Electromagnetic Compatibility.** Gnecco, Louis T., Tempest Incorporated, 1999.
77. **Radio Frequency Principles and Applications.** Smith, Albert A. Jr. IEEE Press/Chapman and Hall, 1998.
78. **Robust Electronic Design Reference Book, Volumes I and II.** Barnes, John R., Kluwer, 2004.
79. **Shipboard Electromagnetics.** Law, Preston E. Jr., Artech House, 1987.
80. **Solving Interference Problems in Electronics.** Morrison, Ralph, John Wiley & Sons, 1995.
81. **Testing for EMC Compliance-Approaches and Techniques.** Montrose, Mark I., Wiley/IEEE Press, 2004.
82. **The Aerospace Engineer's Handbook of Lightning Protection.** Gabrielson, Bruce C., Interference Control Technologies, 1988.
83. **The Engineer's Master Guide to EMI Control.** Gore, Gregory V., R & B Enterprises, 1986.
84. **The Practical Guide to Electrical Product Safety.** Kervill, Gregg, M&M Business Communications Ltd, UK.
85. **The Shielded Enclosure Handbook.** Gnecco, Louis T., Tempest Incorporated, 1999.

ESD REPORTS/STANDARDS

1. **Transient Induced Latch-Up,** ESD Association Technical Report TR 09-00, Jan. 2000.
2. **Designers Guide on Electromagnetic Compatibility, Grounding of Electronic Equipment,** Electronic Industries Association EMC Bulletin No. 6, Dec. 1967.
3. **Design Guidelines for Prevention and Control of Avionic Corrosion,** NAVMAT P 4855-2, June 1983. (download from http://web2.deskbook.osd.mil/htmlfiles/DBY_don-16-Careersalpha.asp)
4. **Designers Guide on Electromagnetic Compatibility, Bonding of Electronic Equipment,** Electronic Industries Association, EMC Bulletin No. 5, Feb. 1964.
5. **Designers Guide on Electromagnetic Compatibility, Cabling of Electronic Equipment,** Electronic Industries Association, EMC Bulletin No. 8, Mar. 1965.
6. **Designers Guide on Electromagnetic Compatibility, Enclosures for Electronic Equipment,** Electronic Industries Association, EMC Bulletin No. 7, Oct. 1966.
7. **Electromagnetic compatibility (EMC). Part 4: testing and measurement techniques section 2: Electrostatic discharge immunity test basic EMC publication,** International Electrotechnical Commission, IEC International Standard 1000-4-2: 1995.
8. **Electromagnetic compatibility for industrial-process measurement and control equipment, 2nd ed.,** International Electrotechnical Commission, IEC International Standard 801-2, Apr. 1991.

9. **Electromagnetic Fields Radiated From Electrostatic Discharges-Theory and Experiment**, Wilson, Perry F., Ondrejka, Arthur R., Ma, Mark T., and Ladbury, John M., NBS Technical Note 1314, Feb. 1988.
10. **Electrostatic Discharge Control Handbook for Protection of Electrical and Electronic Parts, Assemblies and Equipment (Excluding Electrically Initiated Explosive Devices) (Metric)**, Department of Defense, MIL-HDBK-263B, 31 July 1994. (download from <http://www.dodssp.daps.mil/>)
11. **Electrostatic Discharge Immunity Testing of Information Technology Equipment**, European Computer Manufacturers Association, ECMA TR/40, July 1987. (download from <ftp://ftp.ecma.ch/ecma-tr/tr-040.pdf>)
12. **Electrostatic Discharge Susceptibility**, European Computer Manufacturers Association, ECMA TR/23, Sept. 1984. (download from <http://ecma.ch/>)
13. **Guide for Electrostatic Discharge Test Methodologies and Criteria for Electronic Equipment**, ANSI, American National Standard ANSI C63.16-1991.
14. **High-Altitude Electromagnetic Pulse (HEMP) Protection for Ground-Based C4I Facilities Performing Critical, Time-Urgent Missions**, Department of Defense, MIL-STD-188-125, 26 June 1990. (download from <http://www.dodssp.daps.mil/>)
15. **IEEE Guide on Electrostatic Discharge (ESD): ESD Withstand Capability Evaluation Methods (for Electronic Equipment Subassemblies)**, IEEE Std. C62.38-1994, April 25, 1995.
16. **Information technology equipment-- Immunity characteristics-- Limits and methods of measurement, 1st ed.** International Electrotechnical Commission, IEC International Standard CISPR 24, Sept. 1997.
17. **Limits and Methods of Measurement of Immunity Characteristics of Information Technology Equipment**, "European Computer Manufacturers Association, ECMA Standard ECMA-237, June 1996.
18. **Metals and Corrosion Guide**, Ministry of Defence, Defence Standard 02-738, Aug. 1992. (download from <http://www.dstan.mod.uk/>)
19. **Military Handbook Lightning Protection**, Department of Defense, MIL-HDBK-1004/6, 30 May 1988. (download from <http://www.dodssp.daps.mil/>)
20. **Military Specification Finishes for Ground Based Electronic Equipment**, Department of Defense, MIL-F-14072D(ER), 4 Oct. 1990. (download from <http://www.dodssp.daps.mil/>)
21. **Military Specification Microcircuits, General Specification for MIL-M-38510J**, Department of Defense, 15 Nov. 1991. (download from <http://www.dodssp.daps.mil/>)
22. **Military Standard Corrosion Prevention and Deterioration Control in Electronic Components and Assemblies**, Department of Defense, MIL-STD-1250A, 29 June 1992. (download from <http://www.dodssp.daps.mil/>)
23. **Military Standard Dissimilar Metals**, Department of Defense, MIL-STD-889B, 7 July 1976. (download from [http://Department of Defense, Military Standard Grounding, Bonding and Shielding Design Practices, MIL-STD-1857\(EL\), 30 June 1976.](http://Department of Defense, Military Standard Grounding, Bonding and Shielding Design Practices, MIL-STD-1857(EL), 30 June 1976.) (download from <http://www.dodssp.daps.mil/>)
24. **Protection of Electrical and Electronic Parts, Assemblies, and Equipment (Excluding Electrically Initiated Explosive Devices)**, ESD Association, ANSI/ESD S20.20-1999, Aug. 4, 1999. (download from http://www.esda.org/pdf_files/s2020std.pdf)
25. **Standard Practice Electrostatic Discharge Control Program for Protection of Electrical and Electronic Parts, Assemblies and Equipment (Excluding Electrically Initiated Explosive Devices)** Department of Defense, MIL-STD-1686C, Dec. 31 1992. (download from <http://astimage.daps.dla.mil/docimages/0001/79/08/1686C.PD9>)
26. **Static Control Measures: ESD Control Handbook**. 3M Corporation, (download from http://www.3m.com/EHPD/esd_training/seminar/ESD_control_handbook.pdf)
27. **Test Method Standard Microcircuits MIL-STD-883E**, Department of Defense, 31 Dec. 1996. (download from <http://www.dodssp.daps.mil/>)
28. **Test Method Standard Semiconductor Devices MIL-STD-750D**, Department of Defense, 28 Feb. 1995. (download from <http://www.dodssp.daps.mil/>)

WHERE TO ACQUIRE STANDARDS

The following links are provided for ease of acquiring or identifying standards.

- [American National Standards Institute \(ANSI\)](#)
- [Canadian Standards Association \(CSA\)](#)
- [Electrostatics Society of America \(ESA\)](#)
- [European Committee for Electrotechnical Standardization \(CENELEC\)](#)
- [European Telecommunications Standards Institute \(ETSI\)](#)
- [Institute of Electrical and Electronics Engineers \(IEEE\)](#)
- [International Electrotechnical Commission \(IEC\)](#)
- [International Organization for Standardization \(ISO\)](#)
- [Military Standards \(MIL-STD\)](#)
- [Underwriters Laboratories \(UL\)](#)
- [U.S. Federal Communications Commission \(FCC\)](#)
- [VCCI \(Japanese EMC Regulation and Certification\)](#)
- [Verband Deutscher Elektrotechniker e.V. \(VDE\)](#)

OTHER LINKS OF INTEREST

- [Institute of Electrical and Electronic Engineers \(IEEE\)](#)
- [Applied Computational Electromagnetics Society \(ACES\)](#)
- [Electronic Industries Association \(EIA\)](#)
- [Electrostatics Society of America \(ESA\)](#)
- [ESD Association](#)
- [American National Standards Institute \(ANSI\)](#)
- [Asia Pacific Laboratory Accreditation Cooperation \(APLAC\)](#)
- [Canadian Standards Association \(CSA\)](#)
- [Electronic Industries Association \(EIA\)](#)
- [European Organisation for Testing and Certification](#)
- [European Telecommunications Standards Institute \(ETSI\)](#)
- [Finnish Standards Associations SFS](#)
- [International Electrotechnical Commission \(IEC\)](#)
- [International Organization for Standardization \(ISO\)](#)
- [NARTE](#)
- [National Institute of Standards and Technology \(NIST\)](#)
- [Standards Australia](#)
- [U.S. Federal Communications Commission \(FCC\)](#)
- [VCCI \(Japanese EMC Regulation and Certification\)](#)
- [Verband Deutscher Elektrotechniker e.V. \(VDE\)](#)

PUBLISHERS (Still in business)

Artech House. Professional-level books in telecommunications, optoelectronics, microwave, antennas, and radar.

Addison Wesley Longman, Inc. Books, multimedia and learning programs in all major academic disciplines to the primary, secondary, higher education and professional markets throughout the world..

John Wiley & Sons, Inc./IEEE Press. Print and electronic media for the educational, professional, scientific, technical, and consumer markets worldwide.

Springer. Books in science and technology, medicine, business and economics, humanities and social sciences, and law.

McGraw Hill. Wide range of science and engineering titles.

Newnes. Books and multimedia products for students and professionals in electronics and electrical engineering.

Prentice Hall. Text and reference books.