

Another EMC resource from EMC Standards

Getting Started with EMC

Helping you solve your EMC problems

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emc4a v1.0 1 EM Authors who help you understand practical EM concepts well (2) High Frequency Measurements and Noise in Electronic Circuits, Douglas C Smith, ISBN 0-442-00636-5, Kluwer Academic Publishers, 1993, https://emcesd.com/hfmbook.htm Robust Electronic Design Reference Book, Volumes I and II, John R Barnes, Kluwer Academic Publishers, 2004, ISBN: 1-4020-7739-4 (has chapters on EMC design plus a lot more that is useful for electronic designers - it is costly, but 3 inches thick of wonderful information), https://www.springer.com/gp/book/9781402078309, https://www.amazon.co.uk/Robust-Electronic-Design-Reference-Book/dp/1402077394 Fundamentals of Electromagnetic Compatibility, 2nd Edition, Berend Danker, Bicon Laboratories, https://www.bicon.nl/emc-book.html Designing Electronic Systems for EMC, William G Duff, Scitech Publishing, Inc., 2001, ISBN: 978-1-891121-42-5, https://www.amazon.co.uk/Designing-Electronic-Systems-Electromagnetics-Radar/dp/1891121421 The Electromagnetic Compatibility Handbook, Dr Kenneth L Kaiser, CRC Press 2005, ISBN 0 8493 2087 9, a compilation of approximations, guidelines, models and rules-of-thumb used in EMC analyses, with their sources and limitations, delivered in a Q and A format, https://www.amazon.co.uk/Electromagnetic-Compatibility-Handbook-Circuits-Signals/dp/0849320879 EMC Analysis Methods and Computational Models, F M Tesche, M V Ianoz and T Karlsson, Wiley 1997, ISBN 0-471-15573-X, all the equations you ever wanted! https://www.amazon.com/EMC-Analysis-Methods-Computational-Models/dp/047115573X 4 of 16







EMC Conferences, Symposia, and professional Societies

- IEEE EMC Society membership, <u>https://www.emcs.org/membership.html</u>
- IEEE EMC Society, virtual and on-line events, <u>https://www.emcs.org/conferences.html</u>
- IEEE International EMC+SIPI Annual Symposia, www.emcs.org/ieee-symposia-schedule.html
- IEEE EMC Society Young Professionals events: www.emcs.org/young-professional-events.html
- IEEE EMC EMC Chapter Colloquium and Exhibition "Table-Top Shows", <u>https://www.emcs.org/exhibitions-and-table-top-shows.html</u>
- IEEE EMC Society, Training & Education, <u>https://www.emcs.org/training.html</u>
- IET (UK-based) Electromagnetics Network, <u>https://communities.theiet.org/communities/home/57</u>
- EMC Europe Symposium, http://www.emceurope.eu/
- EMV Symposium (Germany), https://emv.mesago.com/stuttgart/en.html
- Asia-Pacific EMC Symposium (APEMC), <u>http://www.apemc.org/</u>
- EMC & Compliance International Conference (Great Britain), https://www.emcuk.co.uk/
- The SUMMA Foundation, organisers of bi-annual conferences on high-power electromagnetics, HPEM, which includes: Lightning, HIRF, NEMP, HEMP, Intentional EMI, etc. <u>http://ece-research.unm.edu/summa/</u>



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em	On-line Resources (1)	
-	Clemson University Vehicular Electronics Laboratory, EMC Resources (including on-line calculators): <u>https://cecas.clemson.edu/cvel/emc/</u>	
-	Missouri University of Science and Technology, Scholar's Mine: https://scholarsmine.mst.edu/emc_facwork/	
-	EMI Analyst's 'Toolbox' of EMC Resources (including on-line calculators) www.emisoftware.com/toolbox/	
-	RF Café a unique portal of RF, microwave, wireless, and other engineering resources, <u>http://www.rfcafe.com/</u>	
•	EEWeb , a suite of free design, verification, and analysis tools <u>https://www.eeweb.com/tools</u> Plus, EEweb is the home for experienced and novice designers alike to share tips and to ask and answer questions via our forums, <u>https://www.eeweb.com</u>	
•	<i>EMC Testing</i> , by Tim Williams and Keith Armstrong, EMC Compliance Journal, 2001-2002: <u>https://www.emcstandards.co.uk/diy-emc-testing-series-2001</u> this series has 7 parts, Parts 1 and 2 are especially relevant to close-field probing	
-	<i>EMI Pre-Compliance Testing</i> , Ken Wyatt, Interference Technology magazine, Jan 16, 2020, https://interferencetechnology.com/emi-pre-compliance-testing/	
•	How to Build Your Own EMI Troubleshooting and Pre-Compliance Kit, Dylan Stinson,March 2, 2020 <u>https://interferencetechnology.com/how-to-build-your-own-emi-</u> troubleshooting-and-pre-compliance-kit/ 7 of 16	































Standards
 A complete listing of EMC standards would require >100 slides, and be constantly changing, so instead – here are some 'access points" to them
<u>https://interferencetechnology.com/category/standards/</u>
 Interference Technology Engineer's Master (ITEM) 2020, an exhaustive guide full of invaluable EMC directories, standards, formulas, calculators, lists, and "how-to" articles, compiled in easy-to- find formats: <u>https://learn.interferencetechnology.com/item-2020/</u>
In Compliance magazine's Standards Library: https://incompliancemag.com/standards-library/
 In Compliance magazine's Standards Updates: https://incompliancemag.com/topics/standards/standards-updates/
American National Standards Institute (ANSI), <u>https://www.ansi.org/</u>
CSA Group, <u>https://www.csagroup.org/</u>
European Telecommunications Standards Institute (ETSI), <u>https://www.etsi.org/</u>
International Electrotechnical Commission (IEC), <u>https://www.iec.ch/</u>
International Organization for Standardization (ISO), https://www.iso.org/home.html
National Institute of Standards and Technology (NIST), https://www.nist.gov/
RTCA, US aviation standards, <u>https://www.rtca.org/</u>
 EUROCAE, European and International aviation standards, <u>https://www.eurocae.net/</u>
 USA Military Standards from 'Every Spec', <u>http://everyspec.com/MIL-STD/MIL-STD-0300-0499/?page=6</u>





