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EMC for Product Designers

by
Tim Williams

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Synopsis

Widely regarded as the standard text on EMC, Tim Williams' book provides all the key information needed to meet the requirements of the latest EMC Directive. Most importantly, it shows how to incorporate EMC principles into the product design process, avoiding cost and performance penalties, meeting the needs of specific standards and resulting in a better overall product. As well as covering the very latest legal requirements, the fourth edition has been thoroughly updated in line with the latest best practice in EMC compliance and product design. Coverage has been considerably expanded to include the R&TTE and Automotive EMC Directives, as well the military aerospace standards of DEF STAN 59-41 and DO160E. A new chapter on systems EMC is included, while short case studies demonstrate how EMC product design is put into practice. Tim Williams has worked for a variety of companies as an electronic design engineer over the last 25 years. He has monitored the progress of the EMC Directive and its associated standards since it was first made public. He now runs his own consultancy specialising in EMC design and test advice and training. Includes the compliance procedures of the latest EMC Directive: 2004/108/EC Short case studies demonstrating how EMC product design is put into practice. Packed full with many new chapters including: The R&TTE Directive and the Automotive EMC Directive looking at compliance aspects of radio and telecom terminal equipment and automotive electronic products; New chapter on military aerospace standards of DEP STAN 59-41 and DO1 60E; New chapter on systems EMC

Sort review

Reviews of the 3rd edition: "Essential reading for those designing electronic products for the European market." --New Electronics "The title could equally well have been 'EMC Handbook' since the book contains a wealth of reference material on the directive, the standards, measurements and the methods which can, and should, be used to achieve compliance." --IEE Review "Tim Williams clearly draws heavily on his experience gained as a consultant, specialising in design and training, which is reflected in the quality and clarity of this work." --International Journal of Electrical Engineering Education --This text refers to an out of print or unavailable edition of this title. Review The indispensable resource on EMC product design; now thoroughly expanded and updated to cover all the major and latest directives --This text refers to an out of print or unavailable edition of this title. Book Description The indispensable resource on EMC product design; now thoroughly expanded and updated to cover all the major and latest directives --This text refers to an out of print or unavailable edition of this title. About the Author Tim Williams worked for a variety of companies as an electronic design engineer, before starting his own consultancy specializing in EMC design and test advice and training. He has monitored the progress of the EMC Directive and its associated standards since it was first made public, over the last 25 years. --This text refers to an out of print or unavailable edition of this title. Read more

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What people say about this book

Juan Pedro Lopez Veraguas, "Easy english, easy to understand and to put in practic. This book take a complete coverage on the EMC subjetc. All topics are well covered as test, regulations, design and troubleshooting. Even if you are not an EMC test enginer I highly recommend to learn something about this task, because some of the non compliance issues, really are setup and test not well done. The EMC test is not as easy to start a program in the PC and create reports, by the contrary there is a lot of science to know what we really are doing, and few EMC test engineers are prepared to do this. The book is 100 per 100 profitable, it has the honor to be next to my prefered ones. Just find a problem, I am 55 years old, the characters are too small and I can hardly read. A few pages more and very little savings less, would have solved the issue."

HF, "Technical part very good, regulatory part Eurocentric.. Well written with a good balance between technical depth and fundamentals. Quite a bit of useful practical information on grounding and cabling. The only warning: the parts on regulatory requirements and measurement standards are written from a Europe/UK point of view, if you are in the US you'll need another book to cover FCC Part 15 and US standards for measurements."

Juhani Tulkki, "Practical approach. The book describes the problems without using too much equations. Very practical for busy designers and those who want to get quick understanding of EMC challenges."

it, "wide range of information. The first half of the book is about all of the government EMC regulations. The second half starts with the basics of how interference happens, then shows ways to eliminate it. Following this are several case studies."

Peter Inskip, "Very good source of insite to EMC. Bought for work and actually enjoyed reading it. I went on a TUV course and met the author. Very good book and well write on a little understood subject."

Pegasus, "A excellent book for the designers of electronic products. In the European Union, all electronic products must meet certain EU Directives for safety, including Electro-magnetic Compatibility. This books describes the various EMC Directives, technical standards and the methods of that may be used to demonstrate compliance. Recommended"

Derek, "Good reference book for practical EMC design and testing.. Bargain! Had not been read, just sat on shelf a while so slightly faded, but otherwise like new. Well worth price, and trader packed book well too. Be very useful to anyone with a proffesional interest in EMC testing or design."

K.J. Sherwood, "Five Stars. Very detailed"

The book by Tim Williams has a rating of 5 out of 4.5. 17 people have provided feedback.

Book Information

Language: English

File size: 19427 KB

Text-to-Speech: Enabled

Screen Reader: Supported

Enhanced typesetting: Enabled

X-Ray: Not Enabled

Word Wise: Enabled

Print length: 513 pages

Lending: Not Enabled

Simultaneous device usage: Unlimited

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