

# Transmission Line Design Handbook By Brian C Wadell

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*Microwave Journal*- 1992

**Microwaves** - Jacques Thuéry 1992

This book deals with all aspects of industrial, scientific and medical (ISM) applications of microwaves. The text covers not only the theoretical and applied aspects of electromagnetism, but also explores current research, industrial considerations and historical and regulatory issues.

*Signal and Power Integrity - simplified* Eric Bogatin 2010

With the inclusion of the two new hot topics in signal integrity, power integrity and high speed serial links, this book will be the most up to date complete guide to understanding and designing for signal integrity.

*Signal Integrity* Eric Bogatin 2004

This thorough review of the fundamental principles associated with signal integrity provides engineering principles behind signal integrity effects, and applies this understanding to solving problems.

*Ultra-Wideband, Short-Pulse Electromagnetics* - Frank Sabath 2010-05-30

This book presents selected contributions of the Ultra-Wideband Short-Pulse Electromagnetics 7 Conference, including electromagnetic theory, scattering, Ultrawideband (UWB) antennas, UWB systems, ground penetrating radar, UWB communications, pulsed-power generation, time-domain computational electromagnetics, UWB compatibility, target detection and discrimination, propagation through dispersive

media, and wavelet and multi-resolution techniques.

Transmission Line Design Handbook - Brian C. Wadell 1991

The Transmission Line Design Handbook consolidates and distills key design data from over 600 original sources. It features 800 equations, 220 illustrations, and 610 references.

Nonuniform Line Microstrip Directional Couplers and Filters - Sener Uysal 1993

This text sets out to provide a source of design techniques for leading to reduction in expense, size and weight of directional couplers and filters. It also gives step-by-step procedures for enhancing circuit performance. Numerous design examples and verified measured results for ultrawideband, bandpass, periodic and co-directional couplers are provided.

Transmission Lines, Matching, and Crosstalk - Kenneth L. Kaiser 2005-09-20

In chapters culled from the popular and critically acclaimed Electromagnetic Compatibility Handbook, Transmission Lines, Matching, and Crosstalk provides a tightly focused, convenient, and affordable reference for those interested primarily in this subset of topics. Author Kenneth L. Kaiser demystifies transmission lines, matching, and crosstalk and explains the source and limitations of the approximations, guidelines, models, and rules-of-thumb used in this field. The material is presented in a unique question-and-answer format that gets straight to the heart of each topic. The book includes numerous examples and uses Mathcad to

generate all of the figures and many solutions to equations. In many cases, the entire Mathcad program is provided.

**Electrical and Thermal Characterization of MESFETs, HEMTs, and HBTs** - Robert Anholt 1995

Encompassing three important technologies, this book explains why III-V transistor device electrical characteristics change with temperature, and develops models of the temperature change for use in integrated circuit design programs. You'll find a wealth of experimental S-equivalent-circuit parameter data on a wide variety of devices that has never before been presented, as well as learn how to measure S-parameters and fit equivalent circuits. Includes 200 equations and 181 illustrations.

*Computer-aided Analysis, Modeling, and Design of Microwave Networks* - Janusz Dobrowolski 1996

This comprehensive new book and software package introduces an alternative to standard microwave CAD: the wave-variable approach to computer-aided analysis, modeling and design of linear and nonlinear microwave networks.

Featuring the latest data available, it allows you to solve troublesome design problems with the frequency-domain or the time-domain wave-based analysis method. Features more than 150 illustrations and 470 equations.

**Microwave and Millimeter-wave Diode Frequency Multipliers** - Marek T. Faber 1995

Written to help scientists, engineers and students who want to understand present and potential semiconductor multiplying diodes, this book provides both theory and practical design examples. It covers the field with a new approach and utilizes the most up-to-date knowledge and today's computing environment.

*Electromagnetic Shielding* - Kenneth L. Kaiser 2005-09-13

In chapters culled from popular and critically acclaimed *Electromagnetic Compatibility Handbook*, *Electromagnetic Shielding* provides a tightly focused, convenient, and affordable reference for those interested primarily in this subset of topics. Author Kenneth L. Kaiser demystifies shielding and explains the source and limitations of the approximations, guidelines, models, and rules-of-thumb used in

this field. The material is presented in a unique question-and-answer format that gets straight to the heart of each topic. The book includes numerous examples and uses Mathcad to generate all of the figures and many solutions to equations. In many cases, the entire Mathcad program is provided.

**Electric Power Generation, Transmission, and Distribution** - Leonard L. Grigsby 2018-09-03

Featuring contributions from worldwide leaders in the field, the carefully crafted *Electric Power Generation, Transmission, and Distribution*, Third Edition (part of the five-volume set, *The Electric Power Engineering Handbook*) provides convenient access to detailed information on a diverse array of power engineering topics.

Updates to nearly every chapter keep this book at the forefront of developments in modern power systems, reflecting international standards, practices, and technologies. Topics covered include: Electric power generation: nonconventional methods Electric power generation: conventional methods Transmission system Distribution systems Electric power utilization Power quality L.L. Grigsby, a respected and accomplished authority in power engineering, and section editors Saifur Rahman, Rama Ramakumar, George Karady, Bill Kersting, Andrew Hanson, and Mark Halpin present substantially new and revised material, giving readers up-to-date information on core areas. These include advanced energy technologies, distributed utilities, load characterization and modeling, and power quality issues such as power system harmonics, voltage sags, and power quality monitoring. With six new and 16 fully revised chapters, the book supplies a high level of detail and, more importantly, a tutorial style of writing and use of photographs and graphics to help the reader understand the material. New chapters cover: Water Transmission Line Reliability Methods High Voltage Direct Current Transmission System Advanced Technology High-Temperature Conduction Distribution Short-Circuit Protection Linear Electric Motors A volume in the *Electric Power Engineering Handbook*, Third Edition. Other volumes in the set: K12648 *Power Systems*, Third Edition (ISBN: 9781439856338) K13917 *Power System Stability and Control*,

Third Edition (ISBN: 9781439883204) K12650  
Electric Power Substations Engineering, Third  
Edition (ISBN: 9781439856383) K12643 Electric  
Power Transformer Engineering, Third Edition  
(ISBN: 9781439856291)

*Electromagnetic Compatibility Handbook*  
Kenneth L. Kaiser 2004-09-29

As the number of electrical devices in use continues to grow, so do the challenges of ensuring the electromagnetic compatibility (EMC) of products and systems. Fortunately, engineers have at their disposal an array of approximations, models, and rules-of-thumb to help them meet those challenges. Unfortunately, the number of these tools and guidelines is overwhelming, and worse still is the thought of investigating their origins and confirming their results. The Electromagnetic Compatibility Handbook is an unprecedented compilation of the many approximations, guidelines, models, and rules-of-thumb used in EMC analyses, complete with their sources and their limitations. The book presents these in an efficient question-and-answer format and incorporates an extremely comprehensive set of tables and figures. The author has either derived from basic principles or obtained and verified from their original sources all of the expressions in the tables. Mathcad was used to generate most of the plots and solve many of the equations, and the author includes the Mathcad programs for many of these so users can clearly see the variable assignments, assumptions, and equations. Designed to be of long-lasting value to engineers, researchers, and students, the Electromagnetic Compatibility Handbook is ideal both for quick reference and as a textbook for upper-level and graduate electrical engineering courses.

*Design of FET Frequency Multipliers and Harmonic Oscillators* Edmar Camargo 1998  
Here's an introduction to the application of Field Effect Transistors (FET) as frequency multipliers and harmonic oscillators. With an emphasis on nonlinear techniques, a minimal amount of mathematics, and the proper combination of theory and experimentation, this book helps microwave and millimeter-wave engineers comprehend the fundamental concepts and design rules of frequency multipliers and harmonic oscillators.

Reference Sources in Science, Engineering, Medicine, and Agriculture - Harold Robert Malinowsky 1994

"Thoughtfully compiled, current, and reasonably priced.... Recommended as a 'one-stop-shopping' source..". -- Library Journal "This work is an essential purchase for libraries with collections in the four designated areas". -- ARBA Both print and nonprint sci-tech information sources can be quickly located, and their uses evaluated, with this new resource -- the only sourcebook to cover all four major branches of science. More than 2,400 entries of complete bibliographic information are accompanied by a brief description of each work. Every source is indexed by author, subject, and title. Special chapters cover how technology is changing the way scientists communicate, and how to build a viable collection in specific disciplines.  
American Book Publishing Record - 1991

Handbook of Conformal Mappings and Applications - Prem K. Kythe 2019-03-04

The subject of conformal mappings is a major part of geometric function theory that gained prominence after the publication of the Riemann mapping theorem — for every simply connected domain of the extended complex plane there is a univalent and meromorphic function that maps such a domain conformally onto the unit disk. The Handbook of Conformal Mappings and Applications is a compendium of at least all known conformal maps to date, with diagrams and description, and all possible applications in different scientific disciplines, such as: fluid flows, heat transfer, acoustics, electromagnetic fields as static fields in electricity and magnetism, various mathematical models and methods, including solutions of certain integral equations.

**Transmission Line Protection Using Digital Technology** - Vijay H. Makwana 2016-06-21

This book develops novel digital distance relaying schemes to eliminate the errors produced by the conventional digital distance relays while protecting power transmission lines against different types of faults. These include high resistance ground faults on single infeed transmission lines; high resistance ground faults on double infeed transmission lines; simultaneous open conductor and ground fault

on double infeed transmission lines; inter-circuit faults on parallel transmission lines; simultaneous open conductor and ground fault on series compensated parallel transmission lines; inter-circuit faults on series compensated parallel transmission lines; and phase faults on series compensated double infeed transmission lines. This monograph also details suggestions for further work in the area of digital protection of transmission lines. The contents will be useful to academic as well as professional researchers working in transmission line protection.

*Low Phase Noise Microwave Oscillator Design*  
Robert G. Rogers 1991

Treats oscillators as the sum of two circuit elements: the active circuit element (including the transistor) and the frequency-determining resonant circuit element. This book provides step-by-step procedures for designing each element in isolation and then combining them to produce the oscillator.

**Complete PCB Design Using OrCAD Capture and PCB Editor** - Kraig Mitzner 2009-05-28

This book provides instruction on how to use the OrCAD design suite to design and manufacture printed circuit boards. The primary goal is to show the reader how to design a PCB using OrCAD Capture and OrCAD Editor. Capture is used to build the schematic diagram of the circuit, and Editor is used to design the circuit board so that it can be manufactured. The book is written for both students and practicing engineers who need in-depth instruction on how to use the software, and who need background knowledge of the PCB design process. Beginning to end coverage of the printed circuit board design process. Information is presented in the exact order a circuit and PCB are designed Over 400 full color illustrations, including extensive use of screen shots from the software, allow readers to learn features of the product in the most realistic manner possible Straightforward, realistic examples present the how and why the designs work, providing a comprehensive toolset for understanding the OrCAD software Introduces and follows IEEE, IPC, and JEDEC industry standards for PCB design. Unique chapter on Design for Manufacture covers padstack and footprint design, and component placement, for the design of manufacturable PCB's FREE CD containing the OrCAD demo

version and design files

**Robust Electronic Design Reference Book: no special title** - John R. Barnes 2004

If you design electronics for a living, you need Robust Electronic Design Reference Book. Written by a working engineer, who has put over 115 electronic products into production at Sycor, IBM, and Lexmark, Robust Electronic Design Reference covers all the various aspects of designing and developing electronic devices and systems that: -Work. -Are safe and reliable. - Can be manufactured, tested, repaired, and serviced. -May be sold and used worldwide. -Can be adapted or enhanced to meet new and changing requirements.

*Design for Electromagnetic Compatibility--In a Nutshell* - Reto B. Keller 2022-11-22

This open access book provides practicing electrical engineers and students a practical - and mathematically sound - introduction to the topic of electromagnetic compatibility (EMC). The author enables readers to understand better how to overcome commonly failed EMC tests for radiated emission, radiated immunity, and electrostatic discharge (ESD), while providing concrete EMC design guidelines. The book also presents an overview of EMC standards and regulations and how to test for a global market access.

**Design of RF and Microwave Amplifiers and Oscillators** - Pieter L. D. Abrie 1999

Achieve first-time-success designing RF and microwave amplifiers and oscillators using the iterative synthesis techniques provided in this practical resource. The book introduces new approaches to help you estimate the 1dB compression point of class A and class B linear circuits, initialize the fundamental component voltages and currents in a harmonic balance simulator, and more easily generate load-pull contours for class A and class B transistors.

**RF/Microwave Hybrids** - Richard Brown 2003

In 1991 this author published a monograph[1] based on his experience teaching microwave hybrid materials and processing technology at the annual ISHM (now the International Microelectronics and Packaging Society, IMAPS) symposia. Since that time, the course has been presented at that venue and on-site at a number of industrial and government organizations. The course has been continually revised to reflect

the many evolutionary changes in materials and processes. Microwave technology has existed for almost 175 years. It was only after the invention of the klystron, just before World War II, that microwave design and manufacture moved from a few visionaries to the growth the industry sees today. Over the last decade alone there have been exploding applications for all types of high frequency electronics in the military, automotive, wireless, computer, telecommunications and medical industries. These have placed demands, unimaginable a decade ago, on designs, materials, processes and equipment to meet the ever expanding requirements for increasingly reliable, smaller, faster and lower cost circuits.

### **Solid-state Microwave Power Oscillator**

**Design** - Eric Holzman 1992

Details improved approaches to the design of power oscillators that employ more analysis and theory and less empirical work than conventional design procedures. It bridges fundamental device physics and the development and implementation of practical microwave and millimeterwave power oscillators.

### Designing Microwave Circuits by Exact Synthesis - Brian J. Minnis 1996

This practical book presents a Universal Design Procedure that can be applied to virtually all types of passive, active, linear, or nonlinear microwave components. It allows you to leave the complexities of network synthesis to computer software so that you can focus your attention on the versatility of synthesis procedures and their applications. Includes more than 170 illustrations and 230 equations.

### Complete PCB Design Using OrCad Capture and Layout - Kraig Mitzner 2011-04-01

Complete PCB Design Using OrCad Capture and Layout provides instruction on how to use the OrCAD design suite to design and manufacture printed circuit boards. The book is written for both students and practicing engineers who need a quick tutorial on how to use the software and who need in-depth knowledge of the capabilities and limitations of the software package. There are two goals the book aims to reach: The primary goal is to show the reader how to design a PCB using OrCAD Capture and OrCAD Layout. Capture is used to build the schematic diagram of the circuit, and Layout is used to design the circuit board so that it can be

manufactured. The secondary goal is to show the reader how to add PSpice simulation capabilities to the design, and how to develop custom schematic parts, footprints and PSpice models. Often times separate designs are produced for documentation, simulation and board fabrication. This book shows how to perform all three functions from the same schematic design. This approach saves time and money and ensures continuity between the design and the manufactured product. Information is presented in the exact order a circuit and PCB are designed. Straightforward, realistic examples present the how and why the designs work, providing a comprehensive toolset for understanding the OrCAD software. Introduction to the IPC, JEDEC, and IEEE standards relating to PCB design. Full-color interior and extensive illustrations allow readers to learn features of the product in the most realistic manner possible.

Coombs' Printed Circuits Handbook - Clyde F. Coombs 2001-08-27

Resolve all your workaday questions with the PCB answer book. Defining the best in printed circuit board design and technology and unparalleled in thoroughness and reliability, Coombs' PRINTED CIRCUITS HANDBOOK, Fifth Edition provides definitive coverage of every facet of printed circuit assemblies, from design methods to manufacturing processes. This new edition of the most trusted guide to PCBs gives you:

- \* Exhaustive coverage of HDI (High Density Interconnect) technologies including design, material, microvia fabrication, sequential lamination, assembly, testing, and reliability
- \* Coverage of fabrication developments including: blind and buried vias, controlled depth drilling, direct imaging, horizontal and pulse plating
- \* Thorough examination of base materials, including traditional and alternative laminates
- \* Understanding of effective quality and reliability programs, including: test & inspection, acceptability criteria, reliability of boards and assemblies, process capability and control
- \* Full treatment of multi-layer and flexible printed circuit design, fabrication and assembly
- \* advanced single- and multi-chip component packaging
- \* Contributions from pros at Motorola, Cisco, and other major companies
- \* Included CD-ROM, with the entire book in searchable format
- \* Hundreds of illustrations

and instant-access tables, and formulas  
*Slim by Design* Brian Wansink 2016-04-26  
 In this paradigm-shattering book, leading behavioural economist and food psychologist Brian Wansink - dubbed the 'Sherlock Holmes of food' and the 'wizard of why' - offers a radical new philosophy for weight loss. The answer isn't to tell people what to do: it's to set up their living environments so that they will naturally lose weight. Using cutting-edge, never-before-seen research from his acclaimed Food and Brand Lab at Cornell University, Wansink reveals how innovative and inexpensive design changes - from home kitchens to restaurants, from grocery stores to schools and workplaces - can make it mindlessly easy for people to eat healthier and make it more profitable for the companies who sell the food. In *Slim by Design*, Wansink argues that the easiest, quickest and most natural way to reverse weight gain is to work with human nature, not against it. He demonstrates how schools can nudge kids to take an apple instead of a cookie, how restaurants can increase profits by selling half-size portions, how supermarkets can double the amount of fruits and vegetables they sell, and how anyone can cut plate refills at home by more than a third. Interweaving drawings, charts, floor plans and scorecards with new scientific studies and compelling insights that will make you view your surroundings in an entirely fresh way, this entertaining, eye-opening book offers practical solutions for changing your everyday environment to make you, your family and even your community slim by design.

*The Electric Power Engineering Handbook - Fifth Volume Set* - Leonard L. Grigsby 2018-12-14  
 The Electric Power Engineering Handbook, Third Edition updates coverage of recent developments and rapid technological growth in crucial aspects of power systems, including protection, dynamics and stability, operation, and control. With contributions from worldwide field leaders—edited by L.L. Grigsby, one of the world's most respected, accomplished authorities in power engineering—this reference includes chapters on: Nonconventional Power Generation Conventional Power Generation Transmission Systems Distribution Systems Electric Power Utilization Power Quality Power

System Analysis and Simulation Power System Transients Power System Planning (Reliability) Power Electronics Power System Protection Power System Dynamics and Stability Power System Operation and Control Content includes a simplified overview of advances in international standards, practices, and technologies, such as small-signal stability and power system oscillations, power system stability controls, and dynamic modeling of power systems. Each book in this popular series supplies a high level of detail and, more importantly, a tutorial style of writing and use of photographs and graphics to help the reader understand the material. This resource will help readers achieve safe, economical, high-quality power delivery in a dynamic and demanding environment. Volumes in the set: K12642 Electric Power Generation, Transmission, and Distribution, Third Edition (ISBN: 9781439856284) K12648 Power Systems, Third Edition (ISBN: 9781439856338) K13917 Power System Stability and Control, Third Edition (9781439883204) K12650 Electric Power Substations Engineering, Third Edition (9781439856383) K12643 Electric Power Transformer Engineering, Third Edition (9781439856291)

*Frequency Synthesizer Design Handbook* James A. Crawford 1994

This work is aimed at practitioners wishing to gain a broader systems-based perspective of phase-locked loops; and is also suitable as a graduate text for engineering students. It provides detailed coverage of digital sampling effects in modern phase-locked frequency synthesizers from a systems perspective, and discusses all aspects of phase noise, its mathematical modelling and its impact upon different digital communication systems. Sections on building blocks for frequency synthesis using phase-locked loops, frequency synthesis using sampled-data control systems, and MASCET, are included.

*Applications of High-power Microwaves* A. V. Gaponov-Grekhov 1994

Here is your one-stop source of all the important research in relativistic microwave electronics in the past two decades -- advances that have greatly enhanced both the peak power and the average power capabilities of microwave

oscillators and amplifiers especially at millimeter wavelengths.

The Invention of Hugo Cabret - Brian Selznick  
2015-09-03

ORPHAN, CLOCK KEEPER, AND THIEF, twelve-year-old Hugo lives in the walls of a busy Paris train station, where his survival depends on secrets and anonymity. But when his world suddenly interlocks with an eccentric girl and her grandfather, Hugo's undercover life, and his most precious secret, are put in jeopardy. A cryptic drawing, a treasured notebook, a stolen key, a mechanical man, and a hidden message from Hugo's dead father form the backbone of this intricate, tender, and spellbinding mystery.

**Computer-aided Analysis of Nonlinear Microwave Circuits** - Paulo J. C. Rodrigues  
1998

This comprehensive new book helps fortify your understanding of the most popular time- and frequency-domain techniques used to analyze nonlinear microwave circuits -- and shows you how to get better performance from these techniques using circuit-analysis software.

Introduction To Modern Planar Transmission Lines - Anand K. Verma 2021-06-02

Provides a comprehensive discussion of planar transmission lines and their applications, focusing on physical understanding, analytical approach, and circuit models Planar transmission lines form the core of the modern high-frequency communication, computer, and other related technology. This advanced text gives a complete overview of the technology and acts as a comprehensive tool for radio frequency (RF) engineers that reflects a linear discussion of the subject from fundamentals to more complex arguments. Introduction to Modern Planar Transmission Lines: Physical, Analytical, and Circuit Models Approach begins with a discussion of waves on transmission lines and waves in material medium, including a large number of illustrative examples from published results. After explaining the electrical properties of dielectric media, the book moves on to the details of various transmission lines including waveguide, microstrip line, co-planar waveguide, strip line, slot line, and coupled transmission lines. A number of special and advanced topics are discussed in later chapters, such as fabrication of planar transmission lines, static

variational methods for planar transmission lines, multilayer planar transmission lines, spectral domain analysis, resonators, periodic lines and surfaces, and metamaterial realization and circuit models. Emphasizes modeling using physical concepts, circuit-models, closed-form expressions, and full derivation of a large number of expressions Explains advanced mathematical treatment, such as the variation method, conformal mapping method, and SDA Connects each section of the text with forward and backward cross-referencing to aid in personalized self-study Introduction to Modern Planar Transmission Lines is an ideal book for senior undergraduate and graduate students of the subject. It will also appeal to new researchers with the inter-disciplinary background, as well as to engineers and professionals in industries utilizing RF/microwave technologies.

Electromagnetic Field Theory Ahmad Shahid Khan  
2020-10-11

The study of electromagnetic field theory is required for proper understanding of every device wherein electricity is used for operation. The proposed textbook on electromagnetic fields covers all the generic and unconventional topics including electrostatic boundary value problems involving two- and three-dimensional Laplacian fields and one- and two- dimensional Poissonion fields, magnetostatic boundary value problems, eddy currents, and electromagnetic compatibility. The subject matter is supported by practical applications, illustrations to supplement the theory, solved numerical problems, solutions manual and Powerpoint slides including appendices and mathematical relations. Aimed at undergraduate, senior undergraduate students of electrical and electronics engineering, it: Presents fundamental concepts of electromagnetic fields in a simplified manner Covers one two- and three-dimensional electrostatic boundary value problems involving Laplacian fields and Poissonion fields Includes exclusive chapters on eddy currents and electromagnetic compatibility Discusses important aspects of magneto static boundary value problems Explores all the basic vector algebra and vector calculus along with couple of two- and three-dimensional problems *Coombs' Printed Circuits Handbook* Clyde

Coombs 2001-09-17

Resolve all your workaday questions with the PCB answer book. Defining the best in printed circuit board design and technology and unparalleled in thoroughness and reliability, Coombs' PRINTED CIRCUITS HANDBOOK, Fifth Edition provides definitive coverage of every facet of printed circuit assemblies, from design methods to manufacturing processes. This new edition of the most trusted guide to pcbs gives you: \* Exhaustive coverage of HDI (High Density Interconnect) technologies including design, material, microvia fabrication, sequential lamination, assembly, testing, and reliability \* Coverage of fabrication developments including: blind and buried vias, controlled depth drilling, direct imaging, horizontal and pulse plating \* Thorough examination of base materials, including traditional and alternative laminates \* Understanding of effective quality and reliability programs, including: test & inspection, acceptability criteria, reliability of boards and assemblies, process capability and control \* Full treatment of multi-layer and flexible printed circuit design, fabrication and assembly advanced single- and multi-chip component packaging \* Contributions from pros at

Motorola, Cisco, and other major companies \* Included CD-ROM, with the entire book in searchable format \* Hundreds of illustrations and instant-access tables, and formulas  
*Design Centering Using M-Sigma Graphics and System Simulation* Peter Vizmuller 1998  
Maximize your chance of first-time success when designing any communication system with this new book and CD-ROM. It introduces a graphical design method that allows you to "center" or adjust the specifications of your designs to achieve the best overall system performance.  
**High-speed Signal Propagation** - Howard Johnson 2003  
High-Speed Signal Propagation: Advanced Black Magic brings together state-of-the-art techniques for building digital devices that can transmit faster and farther than ever before. Dr. Howard Johnson presents brand-new examples and design guidance, and a complete, unified theory of signal propagation for all metallic media. Coverage includes: understanding signal impairments; managing speed/distance tradeoffs; differential signaling; inter-cabinet connections; clock distribution; simulation, and much more.