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About the Author David Pozar is professor of Electrical and Computer Engineering at University of Massachusetts, Amherst. He has received numerous awards both for his teaching and for his research, including an IEEE Third Millenium award.

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About the author (2004) David Pozar is a professor of electrical and computer engineering at the University of Massachusetts at Amherst, where he has worked since 1980. Pozar has written numerous books on the topic of microwave engineering such as Microwave Engineering (1997) and Antenna Design Using Personal Computers (1985).

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David M. Pozar Focusing on the design of microwave circuits and components, this valuable reference offers professionals and students an introduction to the fundamental concepts necessary for real world design.

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I have spent most of my career in the Electrical and Computer Engineering Department at the University of Massachusetts at Amherst, MA, from 1980 to the present. I retired in 2004, and am currently...

Pozar's new edition of Microwave Engineering includes more material on active circuits, noise, nonlinear effects, and wireless systems. Chapters on noise and nonlinear distortion, and active devices have been added along with the coverage of noise and more material on intermodulation distortion and related nonlinear effects. On active devices, there's more updated material on bipolar junction and field effect transistors. New and updated material on wireless communications systems, including link budget, link margin, digital modulation methods, and bit error rates is also part of the new edition. Other new material includes a section on transients on transmission lines, the theory of power waves, a discussion of higher order modes and frequency effects for microstrip line, and a discussion of how to determine unloaded.

This classic text provides a thorough coverage of RF and microwave engineering concepts based on fundamental principles of electrical engineering and applied to microwave circuits and devices of practical importance. Coverage includes microwave network analysis, impedance matching, directional couplers and hybrids, microwave filters, ferrite devices, noise, nonlinear effects, and the design of microwave oscillators, amplifiers, and mixers. A large number of examples and end-of-chapter problems test the reader s understanding of the material. Electromagnetic Theory- Transmission Line Theory- Transmission Lines and Waveguides- Microwave Network Analysis- Impedance Matching and Tuning- Microwave Resonators- Power Dividers and Directional Couplers- Microwave Filters- Theory and Design of Ferrimagnetic Components- Noise and Active RF Components- Microwave Amplifier Design- Oscillators and Mixers- Introduction to Microwave Systems

David Pozar, author of Microwave Engineering, Second Edition, has written a new text that introduces students to the field of wireless communications. This text offers a quantitative and, design-oriented presentation of the analog RF aspects of modern wireless telecommunications and data transmission systems from the antenna to the baseband level. Other topics include noise, intermodulation, dynamic range, system aspects of antennas and filter design. This unique text takes an integrated approach to topics usually offered in a variety of separate courses on topics such as antennas and proagation, microwave systems and circuits, and communication systems. This approach allows for a complete presentation of wireless telecommunications systems designs. The author's goal with this text is for the student to be able to analyze a complete radio system from the transmitter through the receiver front-end, and quantitatively evaluate factors. Suitable for a one-semester course, at the senior or first year graduate level. Note certain sections have been denoted as advanced topics, suitable for graduate level courses.

Introduces CEM methods, applying the codes that implement them to real-world engineering problems.

Modern wireless communications hardware is underpinned by RF and microwave design techniques. This insightful book contains a wealth of circuit layouts, design tips, and practical measurement techniques for building and testing practical gigahertz systems. The book covers everything you need to know to design, build, and test a high-frequency circuit. Microstrip components are discussed, including tricks for extracting good performance from cheap materials. Connectors and cables are also described, as are discrete passive components, antennas, low-noise amplifiers, oscillators, and frequency synthesizers. Practical measurement techniques are presented in detail, including the use of network analyzers, sampling oscilloscopes, spectrum analyzers, and noise figure meters. Throughout the focus is practical, and many worked examples and design projects are included. There is also a CD-ROM that contains a variety of design and analysis programs. The book is packed with indispensable information for students taking courses on RF or microwave circuits and for practising engineers.

"This anthology combines 15 years of microstrip antenna technology research into one significant volume and includes a special introductory tutorial by the co-editors. Covering theory, design and modeling techniques and methods, this source book is an excellent reference tool for engineers who want to become more familiar with microstrip antennas and microwave systems. Proven antenna designs, novel solutions to practical design problemsand relevant papers describing the theory of operation and analysis of microstrip antennas are contained within this convenient reference."

About The Book: The book covers the major topics of microwave engineering. Its presentation defines the accepted standard for both advanced undergraduate and graduate level courses on microwave engineering. It is an essential reference book for the practicing microwave engineer

This book provides a fundamental and practical introductionto radio frequency and microwave engineering and physical aspectsof wireless communication In this book, the author addresses a wide range ofradio-frequency and microwave topics with emphasis on physicalaspects including EM and voltage waves, transmission lines, passivecircuits, antennas, radio wave propagation. Up-to-date RF designtools like RF circuit simulation, EM simulation and computerizedsmith charts, are used in various examples to demonstrate how thesereasons can be applied effectively in RF engineering practice. Design rules and working examples illustrate the theoreticalparts. The examples are close to real world problems, so the readercan directly transfer the methods within the context of their ownwork. At the end of each chapter a list of problems is given in order to deepen the reader ' s understanding of the chaptermaterial and practice the new competences. Solutions are availableon the author ' s website. Key Features: Presents a wide range of RF topics with emphasis on physicalaspects e.g. EM and voltage waves, transmission lines, passivecircuits, antennas Uses various examples of modern RF tools that show how themethods can be applied productively in RF engineering practice Incorporates various design examples using circuit andelectromagnetic (EM) simulation software Discusses the propagation of waves: their representation, theireffects, and their utilization in passive circuits and antennastructures Provides a list of problems at the end of each chapter Includes an accompanying website containing solutions to theproblems (http://www.fh-dortmund.de/gustrau_rf_textbook) This will be an invaluable textbook for bachelor andmasters students on electrical engineering courses(microwave engineering, basic circuit theory and electromagneticfields, wireless communications). Early-stage RF practitioners,engineers (e.g. application engineer) working in this area willalso find this book of interest.

Communication devices such as smart phones, GPS systems, and Bluetooth, are now part of our daily lives more than ever before. As our communication equipment becomes more sophisticated, so do the radios and other hardware required to enable that technology. Common radio architectures are required to make this technology work seamlessly. This resource describes practical aspects of radio frequency communications systems design, bridging the gap between system-level design considerations and circuit-level design specifications. Industry experts not only provide detailed calculations and theory to determine block level specifications, but also discuss basic theory and operational concepts. This resource also includes extensive, up-to-date application examples.

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