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2020 Workshop on Communication Networks and Power Systems (WCNPS) - IEEE Staff 2020-11-12

The 5th Workshop on Communication Networks and Power Systems (WCNPS) will gather renowned experts from industry and from academy in the areas of communication networks, power systems and vehicular technologies Besides the talks of outstanding keynote speakers, peer reviewed articles will be presented during the sessions and further published in the proceedings The 2020 IEEE WCNPS will be held in the Technology Faculty at the University of Bras lia in Brazil

Fundamentals of RF and Microwave Transistor Amplifiers - Inder Bahl 2009-06-17

A Comprehensive and Up-to-Date Treatment of RF and Microwave Transistor Amplifiers This book provides state-of-the-art coverage of RF and microwave transistor amplifiers, including low-noise, narrowband, broadband, linear, high-power, high-efficiency, and high-voltage. Topics covered include modeling, analysis, design, packaging, and thermal and fabrication considerations. Through a unique integration of theory and practice, readers will learn to solve amplifier-related design problems ranging from matching networks to biasing and stability. More than 240 problems are included to help readers test their basic amplifier and circuit design skills-and more than half of the problems feature fully worked-out solutions. With an emphasis on theory, design, and everyday applications, this book is geared toward students, teachers, scientists, and practicing engineers who are interested in broadening their knowledge of RF and microwave transistor amplifier circuit design.

RF & Microwave Design Essentials - Matthew M. Radmanesh 2007

RF & Microwave Design Essentials This book is an indispensable tool for the RF/Microwave engineer as well as the scientist in the field working on the high frequency circuit applications. You will discover: ] Electricity Fundamentals ] Wave propagation ] Amplifier Design ] Gain Equations ] CAD Examples ] S-Parameters ] Circuit Noise ] RF Design ] Circuit Stability ] Transmission Lines ] RF/Microwave Bands ] Matching Circuit Design ] Smith Chart Applications ] BJT and FET Circuit Design ] Advanced RF/Microwave Concepts "The most realistic and inspiring book with invaluable practical insights." Dr. S. K. Ramesh, Dean of Engineering, California State University, Northridge "A completely unique book that unlocks the mysteries of our microwave world." Paul Luong, Senior Microwave Engineer ATK Mission Systems, Inc. The CD-ROM provides design worksheets and menus as well as actual design examples in a Microsoft(R) Excel Environment, where the student can design or analyze RF/Microwave circuits easily and efficiently.

Antenna Theory - Constantine A. Balanis 1996-06-12

The Latest Resource for the Study of Antenna Theory! In a discipline that has experienced vast technological changes, this text offers the most recent look at all the necessary topics. Highlights include: \* New coverage of microstrip antennas provides information essential to a wide variety of practical designs of rectangular and circular patches, including computer programs. \* Applications of Fourier transform (spectral) method to antenna radiation. \* Updated material on moment methods, radar cross section, mutual impedances, aperture and horn antennas, compact range designs, and antenna measurements. A New Emphasis on Design! Balanis features a tremendous increase in design procedures and equations. This presents a solid solution to the challenge of meeting real-life situations faced by engineers. Computer programs contained in the book-and accompanying software-have been developed to help engineers analyze, design, and visualize the radiation characteristics of antennas.

Microwave Solid State Circuit Design - Inder Bahl 2003-04-18

Provides detailed coverage of passive and active RF and microwave circuit design. Discusses the practical aspects of microwave circuits including fabrication technologies. Includes a treatment of heterostructure and wide-band gap devices. Examines compact and low cost circuit design methodologies.

VSAT Networks - Gerard Maral 2004-04-02

VSAT Networks: Second Edition covers all the important issues involved with the installation of VSAT systems. Since the first edition was published, the VSAT market has continued to expand steadily. VSAT technologies have advanced, prompting an increase in the take-up of VSAT services. Offering a comprehensive introduction to the topic followed by a detailed exploration of multiple access protocols, delay analysis and system dimensioning, this edition is a highly relevant update of VSAT Networks. Written by a well respected and established member of the satellite community, it will be welcomed by academics and engineers alike. Covers important issues of services, economics and regulatory aspects Provides a detailed technical insight on networking and radio frequency link aspects, therefore addressing the specific features of VSAT networks at the three lower layers of the OSI Reference Layer Model for data communications This timely second edition is fully updated with new figures, improvements and revised chapter on future developments This book will appeal to students of telecommunications, electronics and computer science. Practising telecommunications engineers and technical managers involved in the planning, design and operation of VSAT networks and systems will also find this book a valuable reference source.

Advanced RF & Microwave Circuit Design - Matthew M. Radmanesh 2008-06-12

RF and Microwaves is currently in the forefront as a fundamental technology in numerous industrial and commercial applications. As applications of RF and microwaves continue to evolve and as this technology becomes a common factor in the scientific and engineering communities it is imperative that university students and practicing scientists and engineers become thoroughly familiar with the measurement principles, electronics, and design fundamentals underlying this technology. RF and Microwaves is currently in the forefront as a fundamental technology in numerous industrial and commercial applications. As applications of RF and microwaves continue to evolve and as this technology becomes a common factor in the scientific and engineering communities it is imperative that university students and practicing scientists and engineers become thoroughly familiar with the measurement principles, electronics, and design fundamentals underlying this technology. Advanced RF & Microwave Circuit Design is the quickest way to master this powerful subject, and information contained within the pages of this book will make every key electronic, measurement, and design principle you need a simple task. The book introduces concepts on a wide range of materials and has several advantages over existing texts, including: 1. The presentation of a series of scientific postulates and axioms, which lays the foundation for any of the engineering sciences and is unique to this book compared with similar RF and Microwave texts.

Designing with Field-effect Transistors - Siliconix Incorporated 1990

projetos eletronicos utilizando transistor de efeito de campo (fet).

Satellite Communications Systems Engineering - Louis J. Ippolito, Jr. 2017-02-28

The first edition of Satellite Communications Systems Engineering (Wiley 2008) was written for those concerned with the design and performance of satellite communications systems employed in fixed point to point, broadcasting, mobile, radio navigation, data relay, computer communications, and related satellite

based applications. This welcome Second Edition continues the basic premise and enhances the publication with the latest updated information and new technologies developed since the publication of the first edition. The book is based on graduate level satellite communications course material and has served as the

primary text for electrical engineering Masters and Doctoral level courses in satellite communications and related areas. Introductory to advanced engineering level students in electrical, communications and wireless network courses, and electrical engineers, communications engineers, systems engineers, and wireless network engineers looking for a refresher will find this essential text invaluable.