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Network Security and Communication Engineering - Kennis Chan - 2015-07-06

The conference note on network security and communication engineering is meant to serve as a forum for exchanging new developments and research progress between scholars, scientists, and engineers all over the world and providing a unique opportunity to exchange information, to present the latest results as well as to review the relevant issues on


This book focuses on soft computing and its applications to solve real-life problems occurring in different domains ranging from medical and health care, supply chain management and image processing to cryptography. It presents the proceedings of the International Conference on Soft Computing: Theories and Applications (SoCTA 2016), offering insights into the latest research and developments in the field of soft computing. The terms soft computing represents an umbrella term for computational techniques like fuzzy logic, neural networks, and nature inspired algorithms. In the past few decades, there has been an exponential rise in the application of soft computing techniques for solving complex and intricate problems arising in different spheres of life. The versatility of these techniques has made them a favorite among scientists and researchers working in diverse areas. SoCTA is the first international conference being organized at Amity University Rajasthan (AUR), Jaipur. The objective of SoCTA 2016 is to provide a common platform to researchers, academicians, scientists, and industrialists working in the area of soft computing to share and exchange their views and ideas on the theory and application of soft computing techniques in multidisciplinary and industrial applications.

IEEIE Transactions on Electronics - 2005

Development of Coherent Detector Technologies for Sub-Millimetre Wave Astronomy Observations - Boon Kok Tan - 2015-09-15

The thesis describes the development of receiver technologies for sub-millimetre wave astronomy instruments, focusing on high performance coherent cryogenic detectors operating in the millimetre-wave and submillimetre-wave regions. The main focus is on the design and performance of a microstrip waveguide directional coupler which is fabricated on 15 micron silicon substrate using the recently developed Silicon-On-Insulator (SOI) technology. This offered broadband IF and RF performance, with fully integrated mixer and amplifier, along with the dielectric and metalization technology, that makes it practical for a sub-millimetre wave application. The design enables the operation of several transmitters and receivers in the same sub-millimetre wave region by using frequency multiplexing.

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to microconventional waveguides, in their unequal planar, in which all of the conductors are aligned on the same side of this structure. This feature preserved essentially all of the key concepts and made the integration of optical interconnection highly feasible. The hybrid integration of the optical interconnection layer and electrical layers is ongoing.

Handbook of Antenna Technologies - Zha Ning Chen - 2016-06-15

The Handbook of Antenna Technologies aims to present the rapid development of antenna technologies, particularly in the past two decades, and also showcasing the newly developed technologies and the latest applications. The handbook will provide readers with the comprehensive updated reference information covering theory, modeling and optimization methods, design and measurement, new electromagnetic materials, and applications of antennas. The handbook will widely cover not only all key antenna design fundamentals, issues related to antennas (transmission, propagation, feeding structure, materials, fabrication, measurement, system, etc.), but will also approach readers as a full and quick technical reference with a high level historic view of technology, detailed technical descriptions and the latest practical applications.

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MicroWave Filters for Communication Systems - Richard J. Cameron - 2018-04-17

An in-depth look at the state-of-the-art in micro-wave filter design, implementation, and optimization Thoroughly revised and expanded, this second edition of the popular reference addresses the many important advances that have taken place in the field since the first edition was published in 2003. New chapters on Multiband Filters, Tunable Filters and a chapter devoted to Practical Considerations and Examples. One of the chief constraints in the evolution of wireless communication systems is the scarcity of the available frequency spectrum, thus making frequency spectrum a primary resource to be judiciously shared and optimally utilized. This fundamental limitation, along with atmospheric conditions and interference have long been drivers of intense research and development in the fields of signal processing and filter networks, the two technologies that govern the information capacity of a given frequency spectrum. Written by distinguished experts with a combined century of industrial and academic experience in the field, MicroWave Filters for Communication Systems provides a coherent, accessible description of system requirements and constraints for micro-wave filters Covers fundamental considerations in the theory and design of micro-wave filters and the use of EM techniques to analyze and optimize filter structures Chapters on Multiband and Tunable Filters and Flexible frequency planning Emerging trends in communication systems and flexible satellite payloads and A chapter devoted to real-world examples and exercises that allow readers to test and fine-tune their grasp of the material covered in various chapters, in effect it provides the roadway to develop a software laboratory, to analyze, design, and perform system level trades (including EM based tolerance and sensitivity analysis for micro-wave filters and multiplexers for practical applications). MicroWave Filters for Communication Systems provides coverage to students and practitioners alike with a solid grounding in the theoretical underpinnings of practical micro-wave filter and its physical realization using state-of-the-art EM-based techniques.
Passive Microwave Components and Antennas - Vitaliy Zhurbenko - 2010-04-01

Modelling and computations in electromagnetics is a quite fast-growing research area. The recent interest in this field is caused by the increased demand for designing complex microwave components, modeling electromagnetic materials, and rapid increase in computational power for calculation of complex electromagnetic problems. The first part of this book is devoted to the advances in the analysis techniques such as method of moments, finite-difference time-domain method, boundary perturbation theory, Fourier analysis, mode-matching method, and analysis based on circuit theory. These techniques are considered with regard to several challenging technological applications such as those related to electrically large devices, scattering in layered structures, photonic crystals, and artificial materials. The second part of the book deals with waveguides, transmission lines and transitions. This includes microstrip lines (MSL), slot waveguides, substrate integrated waveguides (SIW), vertical transmission lines in multilayer media as well as MSL to SIW and MSL to slot line transitions.

Introduction to RF Power Amplifier Design and Simulation - Abdullah Eroglu - 2018-09-03

Introduction to RF Power Amplifier Design and Simulation fills a gap in the existing literature by providing step-by-step guidance for the design of radio frequency (RF) power amplifiers, from analytical formulation to simulation, implementation, and measurement. Featuring numerous illustrations and examples of real-world engineering applications, this book: Gives an overview of intermodulation and elaborates on the difference between linear and nonlinear amplifiers Describes the high-frequency model and transient characteristics of metal–oxide–semiconductor field-effect transistors Details active device modeling techniques for transistors and parasitic extraction methods for active devices Explores network and scattering parameters, resonators, matching networks, and tools such as the Smith chart Covers power-sensing devices including four-port directional couplers and new types of reflectometers Presents RF filter designs for power amplifiers as well as application examples of special filter types Demonstrates the use of computer-aided design (CAD) tools, implementing systematic design techniques Blending theory with practice, Introduction to RF Power Amplifier Design and Simulation supplies engineers, researchers, and RF/microwave engineering students with a valuable resource for the creation of efficient, better-performing, low-profile, high-power RF amplifiers.