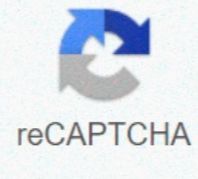




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Microwave solid state circuit design

The new edition of an essential guide to MMICMonolithic microwave integrated circuits (MMICs) based on gallium arsenide (GaAs) technology are increasingly important in applications where component size and performance are prime factors. These include electronic systems for satellite communications, phased-array radar systems, electronic warfare, and other military applications, as well as consumer electronics. The new Second Edition of Microwave Solid State Circuit Design presents a comprehensive discussion of the most current trends in RF and microwave circuits technologies.This contributed volume brings together a team of experts to provide state-of-the-art coverage of network theory basics, the design of passive circuits, solid state devices, and microwave solid state circuits. Richly supported by extensive references and problems, the book examines transmission lines and lumped elements, resonators, impedance matching networks, hybrids and couplers, filters, active and passive solid state devices, oscillators, amplifiers, detectors and mixers, microwave control circuits, frequency multipliers and dividers, MEMS, and circuit fabrication technologies. Appendixes cover S-parameters and ABCD parameters, transfer functions, including Butterworth and Chebyshev, units and symbols, as well as physical constants. Features include: Comprehensive coverage of passive and active RF and microwave circuit designTreatment of practical aspects of microwave circuits including fabrication technologies An overview of MEMS technologyTreatment of heterostructure and wide-band gap devicesInclusion of compact and low-cost circuit design methodologies Thorough and up to date, this Second Edition of a key reference remains a valuable resource for researchers, engineers, and graduate students in RF and microwave engineering. ホム > 洋書 > 英文書 > Science / Mathematics * 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. Table of Contents Preface. Introduction (P. Pramanick & P. Bhartia). Transmission Lines and Lumped Elements (I. Bahl). Resonators (A. Sharma & A. Khanna). Impedance Transformation Techniques (P. Shastri). Hybrids and Couplers (P. Bhartia & P. Pramanick). Filters (E. Griffin & I. Bahl). Active Devices (R. Trew). Passive Devices (R. Trew). Oscillators (A. Khanna). Amplifiers (I. Bahl & E. Griffin). Detectors and Mixers (R. Harrison). Microwave Control Circuits (K. Gupta). Frequency Multipliers and Dividers (R. Harrison). RF MEMS Devices and Circuit Applications (K. Ramadoss & K. Gupta). Circuit Fabrication Technologies (I. Bahl). Appendix A: Units and Symbols. Appendix B: Physical Constants and Other Data. Appendix C: ABCD and S-Parameters. Appendix D: Transfer Function Responses. Index. Preface. Introduction (P. Pramanick & P. Bhartia). Transmission Lines and Lumped Elements (I. Bahl). Resonators (A. Sharma & A. Khanna). Impedance Transformation Techniques (P. Shastri). Hybrids and Couplers (P. Bhartia & P. Pramanick). Filters (E. Griffin & I. Bahl). Active Devices (R. Trew). Passive Devices (R. Trew). Oscillators (A. Khanna). Amplifiers (I. Bahl & E. Griffin). Detectors and Mixers (R. Harrison). Microwave Control Circuits (K. Gupta). Frequency Multipliers and Dividers (R. Harrison). RF MEMS Devices and Circuit Applications (R. Ramadoss & K. Gupta). Circuit Fabrication Technologies (I. Bahl). Appendix A: Units and Symbols. Appendix B: Physical Constants and Other Data. Appendix C: ABCD and S-Parameters. Appendix D: Transfer Function Responses. Index.

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