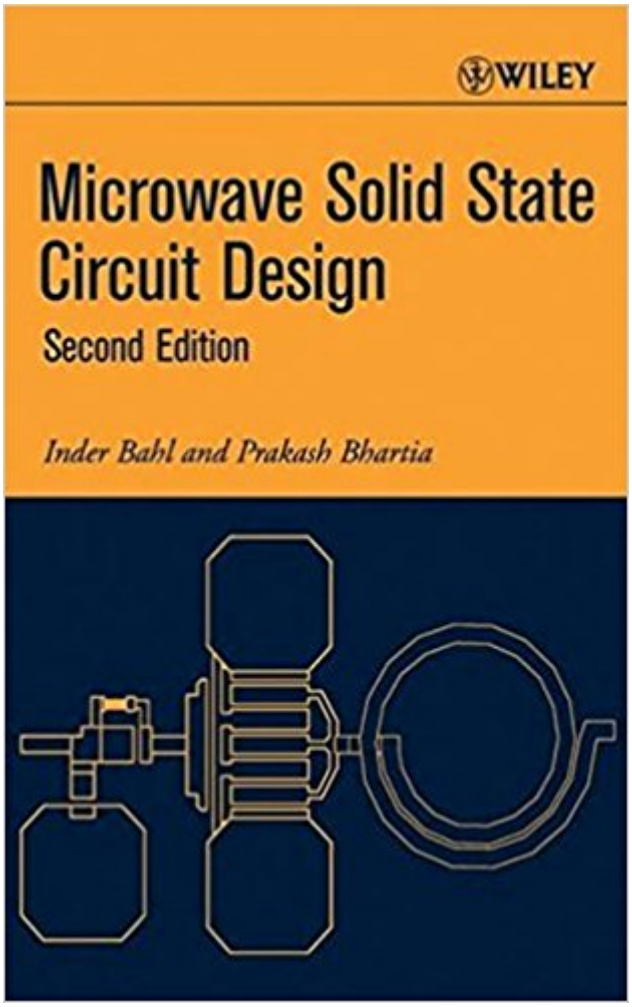
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Microwave Solid State Circuit Design



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Synopsis

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.

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This contributed volume presents a comprehensive discussion of the design of passive circuits, solid state devices, and microwave solid state circuits. Because this is a very diversified area, the subject can only be covered well by a team of authors who are specialists in different topics. The editors of this book have brought together just such a team. Coverage is state-of-the-art and includes extensive references and problems. Topics covered include 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, computer-aided design, microwave integrated circuits, and future trends in microwave circuits. Appendixes cover S-parameters and ABCD parameters; transfer functions: Bessel, Butterworth, Chebyshev, Gaussian, etc.; nonreciprocal components, and noise. --This text refers to the Digital edition.

The new edition of an essential guide to MMIC Monolithic 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 design * Treatment of practical aspects of microwave circuits including fabrication technologies * An overview of MEMS technology * Treatment of heterostructure and wide-band gap devices * Inclusion 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.

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