ICs. The underlying physics and circuit design of rapid single flux quantum (RSFQ) superconducting logic circuits are reviewed, and there is extensive coverage of recent applications in fiber optic transmission systems operating at 10, 40, and 100 Gb/s, while the military application is ADCs and DACs for microwave radar. The book therefore offers excellent power-handling capability, show good linearity or low noise figures at high frequencies. Typical applications for III-V HBTs include handset PAs, high-efficiency planar power amplifiers, and high-speed switched-capacitor filters.

High-Speed InGaAsP Photodiodes and Laser Diodes

High-Speed InGaAsP Photodiodes and Laser Diodes explores the latest advances in InGaAsP photodiodes and laser diodes, with a focus on their applications in high-speed optical communication systems. The book covers the design, fabrication, and testing of high-speed photodiodes and laser diodes, emphasizing their performance in terms of speed, bandwidth, and sensitivity. It also discusses the latest trends in photonic integrated circuits (PICs) and their role in high-speed optical communication systems.

Analysis Methods for RF, Microwave, and Millimeter-Wave Planar Transmission Line Structures

Analysis Methods for RF, Microwave, and Millimeter-Wave Planar Transmission Line Structures is an essential resource for anyone involved in the design and analysis of electromagnetic shielding structures. This book provides a comprehensive treatment of the latest methods and techniques used in the analysis and design of electromagnetic shielding structures. It covers the fundamentals of electromagnetic theory, as well as the latest advances in computational methods used in the analysis of electromagnetic shielding structures.

Electromagnetic Shielding: Principles, Measurements, and Applications

Electromagnetic Shielding: Principles, Measurements, and Applications is a comprehensive guide to electromagnetic shielding, covering the latest developments in the field. It provides a detailed overview of the principles of electromagnetic shielding, including the design and testing of shielding structures, as well as the latest methods and techniques used in the analysis of electromagnetic shielding structures.