

Electromagnetics for high-speed analog and digital communication circuits

Cambridge University Press - Analog And Digital Communications / TavazSearch



Description: -

- Linear integrated circuits
- Digital integrated circuits
- Electromagnetism
- Electromagnetics for high-speed analog and digital communication circuits

Notes: Includes bibliographical references (p. 441-444) and index
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Tags: #Lecture #Notes

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Applications of Maxwell's Equations to the study of waveguides, resonant cavities, optical fiber guides, Gaussian optics, diffraction, scattering, and antennas. Models of speech and music production and perception. Topics include aspects of a.

[PDF] **Electromagnetics for High**

Topics include design flows, discrete and continuous models and algorithms, and strategies for implementing algorithms efficiently and correctly in software. Software for MRI including imaging methods such as 2D FT, RARE, SSFP, spiral and echo planar imaging methods. Gaussian, birth and death, poisson and shot noise processes.

Electromagnetics For High Speed Analog And Digital Communication Circuits PDF Book

Applications to design of digital telephone modems, compact disks, and digital wireless communication systems. Multiple access techniques: TDMA, CDMA, OFDM.

Electromagnetics For High Speed Analog And Digital Communication Circuits PDF Book

The course content may vary from semester to semester. CAD tools for analog design for simulation and synthesis. Modular arithmetic and GCDs; applications include primality testing and cryptography.

Electromagnetics For High Speed Analog And Digital Communication Circuits PDF Book

This book reviews the fundamentals of electromagnetism in passive and active circuit elements, highlighting various effects and potential problems in designing a new circuit. Markov processes and Markov chains. Semiconductor devices including diodes and MOSFETS and their IV characteristics are covered.

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