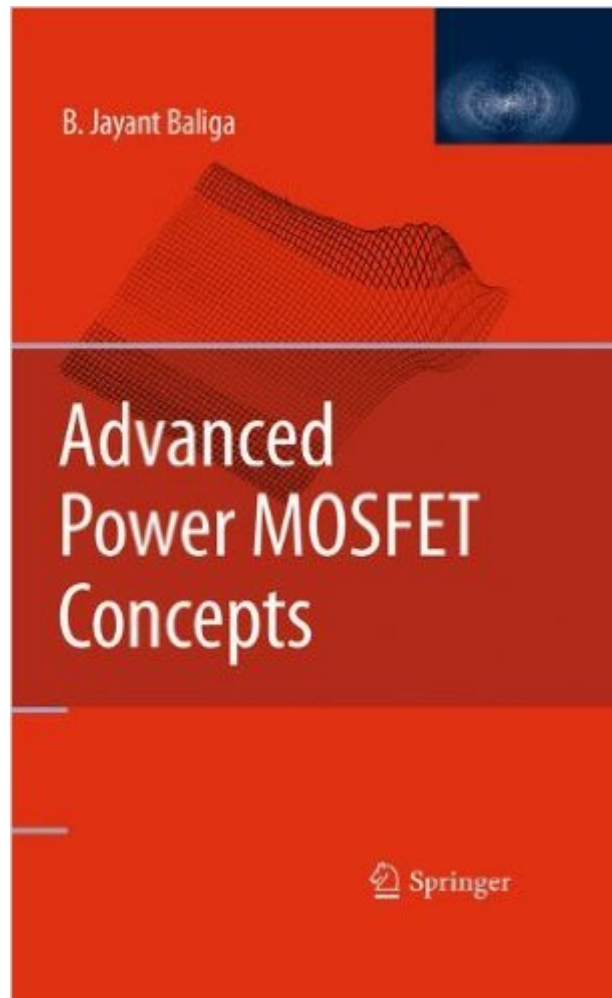


The book was found

Advanced Power MOSFET Concepts



Synopsis

During the last decade many new concepts have been proposed for improving the performance of power MOSFETs. The results of this research are dispersed in the technical literature among journal articles and abstracts of conferences. Consequently, the information is not readily available to researchers and practicing engineers in the power device community. There is no cohesive treatment of the ideas to provide an assessment of the relative merits of the ideas. "Advanced Power MOSFET Concepts" provides an in-depth treatment of the physics of operation of advanced power MOSFETs. Analytical models for explaining the operation of all the advanced power MOSFETs will be developed. The results of numerical simulations will be provided to give additional insight into the device physics and validate the analytical models. The results of two-dimensional simulations will be provided to corroborate the analytical models and give greater insight into the device operation.

Book Information

Hardcover: 562 pages

Publisher: Springer; 2010 edition (July 7, 2010)

Language: English

ISBN-10: 1441959165

ISBN-13: 978-1441959164

Product Dimensions: 6.1 x 1.2 x 9.2 inches

Shipping Weight: 2.1 pounds (View shipping rates and policies)

Average Customer Review: 5.0 out of 5 starsÂ Â See all reviewsÂ (2 customer reviews)

Best Sellers Rank: #1,068,878 in Books (See Top 100 in Books) #45 inÂ Books > Engineering & Transportation > Engineering > Electrical & Electronics > Electronics > Transistors #296 inÂ Books > Engineering & Transportation > Engineering > Electrical & Electronics > Electronics > Microelectronics #358 inÂ Books > Science & Math > Physics > Solid-State Physics

Customer Reviews

This book provides an excellent introduction to charge coupled devices that isn't covered in the more basic "Fundamentals of Power Semiconductor Devices" by the same author. If you want to have a good understanding of the theoretical background behind superjunction and GD MOSFETs, this is your go-to book. "Fundamentals of Power Semiconductor Devices" provides all of the basic power MOSFET models (Ron and Switching, along with deriving device capacitances), and should be sufficient if you're not looking for the advanced concepts (SJ, CC, GD) that have been developed

to push the unipolar limit.

satisfied, A+

[Download to continue reading...](#)

Advanced Power MOSFET Concepts MOSFET Modeling With SPICE: Principles and Practice
Mosfet Modeling for VLSI Simulation: Theory And Practice (International Series on Advances in
Solid State Electronics) (International Series on Advances in Solid State Electronics and
Technology) Power Training: For Combat, MMA, Boxing, Wrestling, Martial Arts, and Self-Defense:
How to Develop Knockout Punching Power, Kicking Power, Grappling Power, and Ground Fighting
Power Concepts and Case Analysis in the Law of Contracts (Concepts and Insights) Concepts and
Case Analysis in the Law of Contracts, 6th (Concepts & Insights) Chirelstein's Concepts and Case
Analysis in the Law of Contracts, 7th (Concepts and Insights Series) Advancing Your Career:
Concepts in Professional Nursing (Advancing Your Career: Concepts of Professional Nursing)
Professional Nursing: Concepts & Challenges (Professional Nursing; Concepts and Challenges)
Fundamental Nursing Skills and Concepts (Timby, Fundamnetal Nursing Skills and Concepts)
Intermediate Algebra: Concepts & Applications (Bittinger Concepts & Applications) In-Fisherman
Critical Concepts 1: Largemouth Bass Fundamentals Book (Critical Concepts (In-Fisherman))
Advanced Concepts In Operating Systems Genetic Algorithms: Concepts and Designs (Advanced
Textbooks in Control and Signal Processing) Model Railroad Electronics: Basic Concepts to
Advanced Projects (Model Railroad Handbook) Supply Chain Management and Advanced
Planning: Concepts, Models, Software, and Case Studies (Springer Texts in Business and
Economics) The Understanding by Design Guide to Advanced Concepts in Creating and Reviewing
Units Complex Litigation: Problems in Advanced Civil Procedure (Concepts and Insights) Advanced
Practice Nursing, Fifth Edition: Core Concepts for Professional Role Development Fluids and
Electrolytes: NCLEX Mastery - The EASY Guide to Understand Fluids and Electrolytes!: Basic +
Advanced concepts made incredibly easy!!

[Dmca](#)