

B. Jayant Baliga



# Advanced Power MOSFET Concepts

 Springer

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**United States. Congress. Senate.  
Committee on Appropriations**



## **Advanced Power Mosfet Concepts:**

*Advanced Power MOSFET Concepts* B. Jayant Baliga, 2010-06-26 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

**Advanced MOS Devices** Dieter K. Schroder, 1987 Pulls together all the relevant concepts in this field Volume 5 builds upon the material previously covered in the series and contains references for further reading For advanced students industrial researchers and E E professionals *Advanced High Voltage Power Device Concepts* B. Jayant Baliga, 2011-09-21 The devices described in Advanced MOS Gated Thyristor Concepts are utilized in microelectronics production equipment in power transmission equipment and for very high power motor control in electric trains steel mills etc Advanced concepts that enable improving the performance of power thyristors are discussed here along with devices with blocking voltage capabilities of 5 000 V 10 000 V and 15 000 V Throughout the book analytical models are generated to allow a simple analysis of the structures and to obtain insight into the underlying physics The results of two dimensional simulations are provided to corroborate the analytical models and give greater insight into the device operation

*International Aerospace Abstracts*, 1994 **Advanced Electronic Circuit Design** David J. Comer, Donald T. Comer, 2003 Description Building on Fundamentals of Electronics Circuit Design David and Donald Comer's new text Advanced Electronic Circuit Design extends their highly focused applied approach into the second and third semesters of the electronic circuit design sequence This new text covers more advanced topics such as oscillators power stages digital analog converters and communications circuits such as mixers and detectors The text also includes technologies that are emerging Advanced Electronic Circuit Design focuses exclusively on MOSFET and BJT circuits allowing students to explore the fundamental methods of electronic circuit analysis and design in greater depth Each type of circuit is first introduced without reference to the type of device used for implementation This initial discussion of general principles establishes a firm foundation on which to proceed to circuits using the actual devices Features 1 Provides concise coverage of several important electronic circuits that are not covered in a fundamentals textbook 2 Focuses on MOSFET and BJT circuits rather than offering exhaustive coverage of a wide range of devices and circuits 3 Includes an Important Concepts summary at the beginning of each section that direct the reader's attention to these key points 4 Includes several Practical

Considerations sections that relate developed theory to practical circuits Instructor Supplements ISBN SUPPLEMENT  
 DESCRIPTION Online Solutions Manual Brief Table of Contents 1 Introduction 2 Fundamental Power Amplifier Stages 3  
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*EDN.* ,1987     Satellite Power Systems (SPS) Concept Definition Study (exhibit D): Systems Gerald Michael  
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Proceedings of the 16th Intersociety Energy Conversion Engineering Conference, Atlanta, Georgia, August 9-14, 1981  
 ,1981     Advanced Information Processing System for Advanced Launch System: Hardware Technology Survey and  
Projections Richard Cole,1991     **Power Electronics Technology and Applications II** Fred C. Lee,1997 A sequel to  
 Power Electronics Technology and Applications this text is targeted specifically towards the needs of practicing design  
 engineers The focus is to provide the practicing engineer with up to date technology and emerging applications  
*Technology Roadmap for Nanoelectronics* Ramón Compañó,2000 A roadmap is an extended look at the future composed  
 from the collective knowledge of experts in the field A roadmap encompasses trends in the area links and comparisons  
 between different fields identification of discontinuities or knowledge voids and highlights potential major show stoppers  
 Before entering into the nanoelectronics world first the tendencies and limits of classical CMOS technology will be reviewed  
 Alternative nanoelectronic options will then be positioned from the point of view of potential markets technological progress  
 and scientific challenges     Power Electronics in Transportation ,1992-12     *IEEE Circuits & Devices* ,2005

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