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# Advanced Power MOSFET Concepts

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# Advanced Power Mosfet Concepts

**Lauren Gardner**



## **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 Power Semiconductor Devices**, 1992

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. Power Electronics Design Handbook Nihal Kularatna, 1998. **Power Electronics Design Handbook** covers the basics of power electronics theory and components while emphasizing modern low power components and applications. Coverage includes power semiconductors, converters, power supplies, batteries, protection systems and power ICs. One of the unique features of the **Power Electronics Design Handbook** is the integration of component and system theory with practical applications, particularly energy saving low power applications. Many chapters also include a section that looks forward to future developments in that area. References for further information or more in depth technical reading are also included. Nihal Kularatna is a principal research engineer with the Arthur C Clarke Foundation in Sri Lanka. He is also the author of *Modern Electronic Test and Measuring Instruments* published by the Institute of Electrical Engineers. Emphasizes low and medium power components. Offers a unique mix of theory and practical application. Provides a useful guide to further reading. **Proceedings of the Technical Conference**, 1989. Advanced Integrated Power and Attitude Control System (IPACS) Study Ronald E. Oglevie, 1985. *Design of Advanced Low-power, Sub-quarter Micron Metal Oxide Semiconductor Field Effect Transistors (MOSFET)* Weize Xiong, 2001. *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 Advanced Power Amplification
- 4 Wideband Amplifiers
- 5 Narrowband Amplifiers
- 6 Sinusoidal Oscillators
- 7 Basic Concepts in Communications
- 8 Amplitude Modulation Circuits
- 9 Angle Modulation Circuits
- 10 Mixed Signal Interfacing Circuits
- 11 Basic Concepts in Filter Design
- 12 Active Synthesis
- 13 Future Directions

*Silicon Carbide and Related Materials 2003* Roland Madar, Jean Camassel, Elisabeth Blanquet, 2004-06-15 ICSCRM 2003 Proceedings of the 10th International Conference on Silicon Carbide and Related Materials 2003 Lyon France October 5-10 2003 **CEE**, 1981 **EDN, Electrical Design News**, 1989 *EDN.*, 1987 Electrical & Electronics Abstracts, 1997 **Satellite Power Systems (SPS) Concept Definition Study (exhibit D): Systems** Gerald Michael Hanley, 1981 **Proceedings of the ... International Symposium on Power Semiconductor Devices and ICs**, 2004 **Conference Record, Industry Applications Society, IEEE-IAS Annual Meeting (1981)** IEEE Industry Applications Society, 1995 *Advanced Vehicle and Infrastructure Systems* Christopher O. Nwagboso, 1997-04-17 This book explores the technical advances in vehicle and infrastructure systems that are taking place in response to the increasing congestion of our roads It describes all the relevant computer and control techniques and takes an applications oriented approach to fill the many gaps that exist in the mass knowledge in the field **Satellite Power System (SPS) Concept Definition Study (Exhibit D). Volume 2: Systems/subsystems Analyses** G. M. Hanley, 1981 ISPSD '94 Wolfgang Fichtner, André A. Jaecklin, Dölf Aemmer, 1994

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