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MOS FET 2004-11-01 mos fet
MOS FET 2011-08 mos fet
IGBT 2022-09 mos fet igt

MOSFET/IGBT 2002-07 mosfet igt

Advanced Power MOSFET Concepts 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

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Power MOSFETs 1989-04-25 details the theory of power mosfets and their applications explains the basis of mosfet characteristics and the features that determine mosfet behavior examines the interaction of the mosfet device with other elements in the circuit and how device characteristics influence circuit design describes several circuits at length to highlight the practical details of power mosfet use

Silicon RF Power MOSFETS 2005 the world wide proliferation of cellular networks has revolutionized telecommunication systems the transition from analog to digital rf technology enabled substantial increase in voice traffic using available spectrum and subsequently the delivery of digitally based text messaging graphics and even streaming video the deployment of digital networks has required migration to multi carrier rf power amplifiers with stringent demands on linearity and efficiency this book describes the physics design considerations and rf performance of silicon power metal oxide semiconductor field effect transistors mosfets that are at the heart of the power amplifiers the recent invention and commercialization of rf power mosfets based on the super linear mode of operation is described in this book for the first time in addition to the analytical treatment of the physics extensive description of transistor operation is provided by using the results of numerical simulations many novel power mosfet structures are analyzed and their performance is compared with those of the laterally diffused ld mosfet that are currently used in 2g and 3g networks book jacket title summary field provided by blackwell north america inc all rights reserved

Low Voltage Power MOSFETs 2011-03-30 low voltage power mosfets focuses on the design of low voltage power mosfets and the relation between the device structure and the performance of a power mosfet used as a switch in power management applications this springerbriefs close the gap between detailed engineering reference books and the numerous technical papers on the subject of power mosfets the material presented covers low voltage applications extending from battery operated portable electronics through point of load converters internet infrastructure automotive applications to personal computers and server computers the issues treated in this volume are explained qualitatively using schematic illustrations making the discussion easy to follow for all prospective readers

1992 contains columns and articles taken from popular electronics and modern electronics which detail electronic circuit projects for the amateur

Mims Circuit Scrapbook V.II 2000-09

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fundamentals of power semiconductor devices provides an in depth treatment of the physics of operation of power semiconductor devices that are commonly used by the power electronics industry analytical models for explaining the operation of all power semiconductor devices are shown the treatment here focuses on silicon devices but includes the unique attributes and design requirements for emerging silicon carbide devices the book will appeal to practicing engineers in the power semiconductor device community

Fundamentals of Power Semiconductor Devices 2011-04 power electronics which is a rapidly growing area in terms of research and applications uses modern electronics technology to convert electric power from one form to another such as ac dc dc dc dc ac and ac ac with a variable output magnitude and frequency power electronics has many applications in our every day life such as air conditioners electric cars sub way trains motor drives renewable energy sources and power supplies for computers this book covers all aspects of switching devices converter circuit topologies control techniques analytical methods and some examples of their applications 25 new content reorganized and revised into 8 sections comprising 43 chapters coverage of numerous applications including uninterruptable power supplies and automotive electrical systems new content in power generation and distribution including solar power fuel cells wind turbines and flexible transmission

Power Electronics Handbook 2020-11-30 covers the design and application of power electronics devices and systems. It is divided into 11 volumes covering various topics in power electronics.

Power MOSFET Design 2019-05 covers the design and application of power MOSFETs. It includes chapters on device physics, modeling, and design.

Insulated Gate Bipolar Transistor IGBT Theory and Design 2004-09 provides a comprehensive and state of the art coverage of the design and fabrication of IGBT. It explains the fundamentals of MOS and bipolar physics, covers IGBT operation, device and process design, power modules, and new IGBT structures.

Power MOSFET Design 2019-05 covers the design and application of power MOSFETs. It includes chapters on device physics, modeling, and design.

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