



Advanced Power MOSFET Concepts

By B. Jayant Baliga

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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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Editorial Review

From the Back Cover

"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 are developed and explained. The results of numerical simulations are provided to give additional insight into the device physics and validate the analytical models. The results of two-dimensional simulations are also given, in order to corroborate the analytical models and give further insight into the device operation. This volume also: -Discusses devices that can have a significant impact on improving the efficiency of the voltage-regulator-modules used to deliver power to microprocessors and graphics chips in laptops and servers -Covers applications in all lower voltage circuits, especially the automotive electronics area Includes numerical simulation examples to explain the operating physics and validate the models - Offers extensive coverage of the role of silicon carbide in the design and structure of power rectifiers "Advanced Power MOSFET Concepts" is a must-read for researchers and practicing engineers in the power device industry.

Users Review

From reader reviews:

Kirsten Muncy:

What do you regarding book? It is not important along? Or just adding material if you want something to explain what your own problem? How about your extra time? Or are you busy man? If you don't have spare time to accomplish others business, it is gives you the sense of being bored faster. And you have spare time? What did you do? Every person has many questions above. The doctor has to answer that question mainly because just their can do this. It said that about guide. Book is familiar in each person. Yes, it is appropriate. Because start from on pre-school until university need that Advanced Power MOSFET Concepts to read.

Alex Lynch:

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