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Operation And Modeling Of The Mos Transistor

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This is the first book dedicated to the next generation of MOSFET models. Addressed to circuit designers with an in-depth treatment that appeals to device specialists, the book presents a fresh view of compact modeling, having completely abandoned the regional modeling approach.Both an overview of the basic physics theory required to build compact MOSFET models and a unified treatment of inversion-charge and surface-potential models are provided. The needs of digital, analog and RF designers as regards the availability of simple equations for circuit designs are taken into account. Compact expressions for hand analysis or for automatic synthesis, valid in all operating regions, are presented throughout the book. All the main expressions for computer simulation used in the new generation compact models are derived.Since designers in advanced technologies are increasingly concerned with fluctuations, the modeling of fluctuations is strongly emphasized. A unified approach for both space (matching) and time (noise) fluctuations is introduced.

Written by an award-winning educator and researcher, the sixteen experiments in this book have been extensively class-tested and fine-tuned. This lab manual, like no other, provides an exciting, active exploration of concepts and measurements and encourages students to tinker, experiment, and become creative on their own. This benefits their further study and subsequent professional work. The manual includes self-contained background for all electronics experiments, so that the lab can be run concurrently with any circuits or electronics course, at any level. It uses circuits in real applications which students can relate to, in order to motivate them and convince them that what they learn is for real. As a result, the material is not only made interesting, but helps motivate further study in circuits, electronics, communications and semiconductor devices. EXTENSIVE INSTRUCTOR RESOURCES: * Putting the Lab Together is an extensive resource for instructors who are considering starting a lab based on this book. Includes an overview of a typical lab station, suggestions for choosing measurement equipment, equipment list with relevant information, and detailed information on parts required. This resource is openly available. * Instructor's Manual includes hints for choosing lab TAs, hints on how to run the lab experiments, guidelines for shortening or combining experiments, answers to experiment questions, and suggestions for projects and exams. This manual is available to instructors who adopt the book.

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Analysis and Design of MOSFETs: Modeling, Simulation, and Parameter Extraction is the first book devoted entirely to a broad spectrum of analysis and design issues related to the semiconductor device called metal-oxide semiconductor field-effect transistor (MOSFET). These issues include MOSFET device physics, modeling, numerical simulation, and parameter extraction. The discussion of the application of device simulation to the extraction of MOSFET parameters, such as the threshold voltage, effective channel lengths, and series resistances, is of particular interest to all readers and provides a valuable learning and reference tool for students, researchers and engineers. Analysis and Design of MOSFETs: Modeling, Simulation, and Parameter Extraction, extensively referenced, and containing more than 180 illustrations, is an innovative and integral new book on MOSFETs design technology.

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