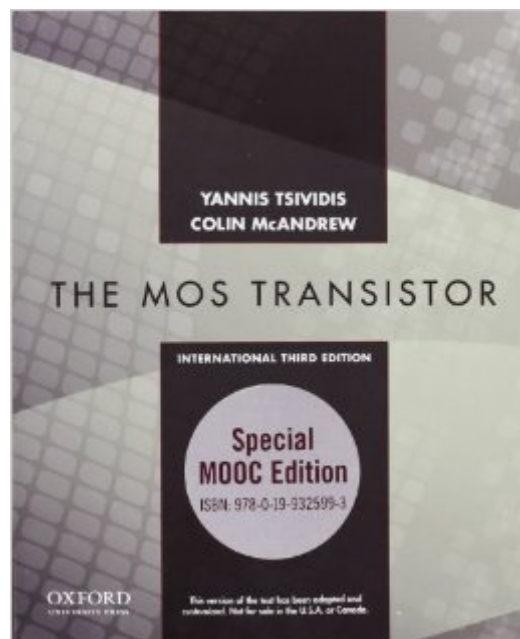


The book was found

Operation And Modeling Of The MOS Transistor: Special MOOC Edition (The Oxford Series In Electrical And Computer Engineering)



Synopsis

Operation and Modeling of the MOS Transistor has become a standard in academia and industry. Extensively revised and updated, the third edition of this highly acclaimed text provides a thorough treatment of the MOS transistor--the key element of modern microelectronic chips.

Book Information

Series: The Oxford Series in Electrical and Computer Engineering

Paperback: 736 pages

Publisher: Oxford University Press; 3 edition (February 15, 2013)

Language: English

ISBN-10: 0199325995

ISBN-13: 978-0199325993

Product Dimensions: 9.2 x 1.1 x 7.5 inches

Shipping Weight: 2.6 pounds

Average Customer Review: 4.3 out of 5 stars [See all reviews](#) (6 customer reviews)

Best Sellers Rank: #2,339,239 in Books (See Top 100 in Books) #48 in [Books > Engineering & Transportation > Engineering > Electrical & Electronics > Electronics > Solid State](#) #78 in [Books > Engineering & Transportation > Engineering > Electrical & Electronics > Electronics > Transistors](#) #418 in [Books > Engineering & Transportation > Engineering > Electrical & Electronics > Electronics > Semiconductors](#)

Customer Reviews

This review is for the third-edition (ISBN 978-0-19-517015-3) of this book. All other reviews by others prior to this review are for the second-edition (ISBN 0-19-517014-8). However, all other reviews are still applicable to the third-edition. As other reviewers already pointed out, this is a great electrical/electronics engineering textbook. The third-edition has been extensively revised and 700-page long while the second-edition is 600-page long. I have absolutely no doubt in my mind that people who enjoyed the second-edition will also enjoy the third-edition even more and will feel that the contents of the book are up-to-date. The mathematical requirements to understand this book are introductory differential and integral calculus. And one must be willing to sit down with a pencil and paper to derive many equations in the book. Furthermore, one must have ready access to computer with mathematical software such as MATLAB with Optimization Toolbox installed. I found myself using MATLAB commands such as "fsolve" a lot to plot the graphs that I see on the book. This book covers only Si (silicon) bulk MOS transistors and does not cover the following MOS

topics. SOI transistors GaAs/InP transistors RF modeling In my opinion, the authors intended to write a textbook, not an encyclopedia. And it becomes very clear why some topics are left out of the book as one reads through the book. The books/papers covering missing topics are listed in Bibliography section at the end of each chapter. The authors never use a term such as "It is easy to see..." and skip explanations of certain topics in the book. If a topic needs to be explained, the authors went great lengths to explain the topic.

[Download to continue reading...](#)

Operation and Modeling of the MOS Transistor: Special MOOC Edition (The Oxford Series in Electrical and Computer Engineering) Operation and Modeling of the MOS Transistor (The Oxford Series in Electrical and Computer Engineering) Operation and Modeling of the MOS Transistor Operation & Modeling of the MOS Transistor MOS 2013 Study Guide for Microsoft Word Expert (MOS Study Guide) MOS 2016 Study Guide for Microsoft Outlook (MOS Study Guide) Computer Architecture: From Microprocessors to Supercomputers (The Oxford Series in Electrical and Computer Engineering) The Science and Engineering of Microelectronic Fabrication (The Oxford Series in Electrical and Computer Engineering) Fabrication Engineering at the Micro- and Nanoscale (The Oxford Series in Electrical and Computer Engineering) Design of Analog Filters 2nd Edition (The Oxford Series in Electrical and Computer Engineering) Microelectronic Circuits (The Oxford Series in Electrical and Computer Engineering) 7th edition Microelectronic Circuits Revised Edition (Oxford Series in Electrical and Computer Engineering) Linear System Theory and Design (The Oxford Series in Electrical and Computer Engineering) Modern Digital and Analog Communication Systems (The Oxford Series in Electrical and Computer Engineering) An Introduction to Mixed-Signal IC Test and Measurement (Oxford Series in Electrical and Computer Engineering (Hardco) Electric Machinery and Transformers (The Oxford Series in Electrical and Computer Engineering) Photonics: Optical Electronics in Modern Communications (The Oxford Series in Electrical and Computer Engineering) Digital Control Systems (The Oxford Series in Electrical and Computer Engineering) CMOS Analog Circuit Design (The Oxford Series in Electrical and Computer Engineering) Understanding Semiconductor Devices (The Oxford Series in Electrical and Computer Engineering)

[Dmca](#)