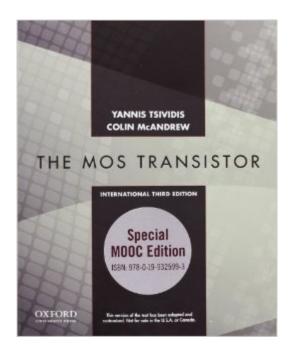
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# Operation And Modeling Of The MOS Transistor: Special MOOC Edition (The Oxford Series In Electrical And Computer Engineering)





## 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 Â 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 > Solid State #78 in Books > Engineering & Transportation > Engineering > Electrical & Electronics > Electronics > Transistors #418 in Books > Engineering & Transportation > Engineering > Electrical & Electronics > Electroni

#### **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 transistorsGaAs/InP transistorsRF modelingIn 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.

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