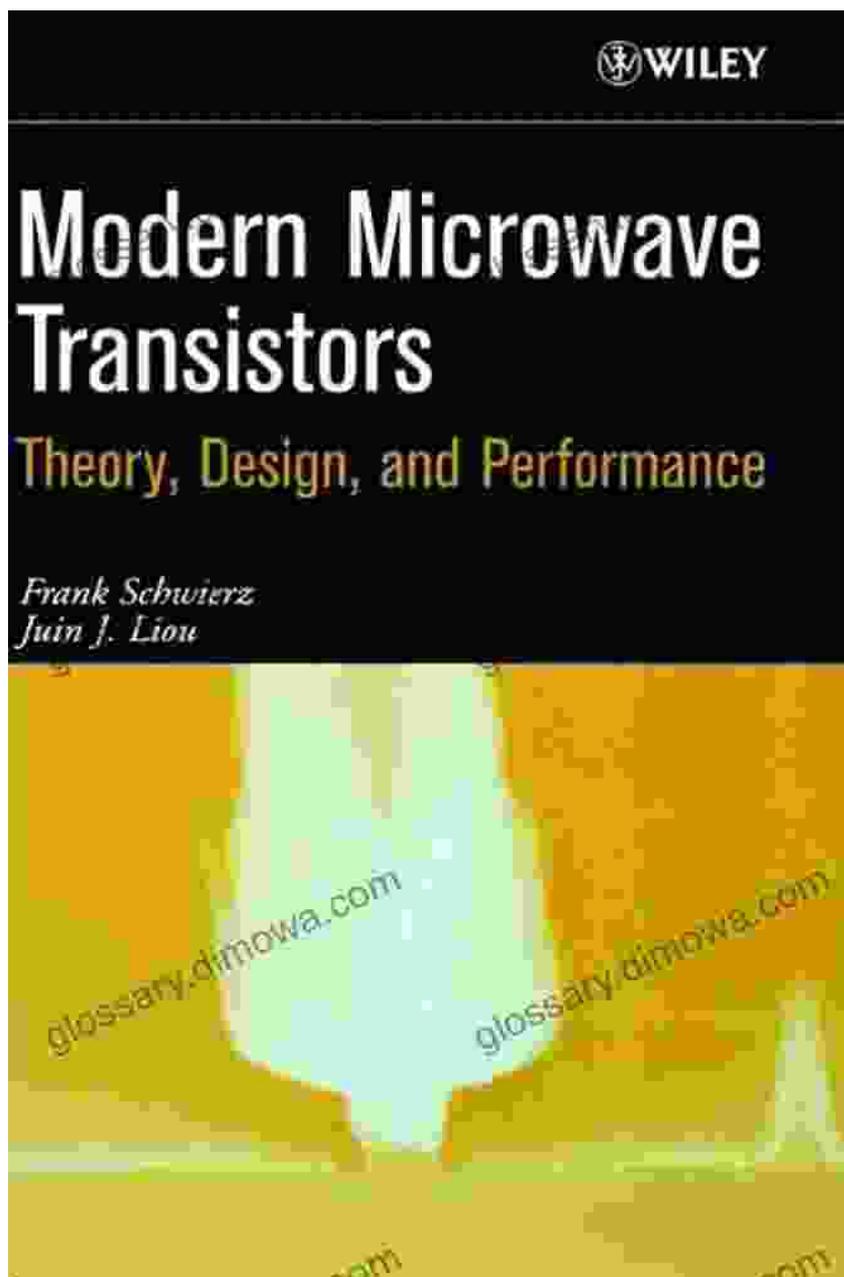


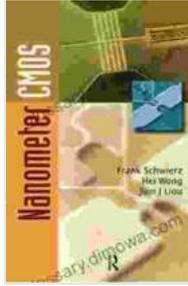
# Nanometer CMOS: Circuit, Physics, and Technology by Frank Schwierz - The Ultimate Guide to Advanced Semiconductor Design



**Nanometer CMOS** by Frank Schwierz

★★★★★ 5 out of 5

Language : English



File size : 143144 KB

Screen Reader : Supported

Print length : 350 pages



## About the Book

Nanometer CMOS: Circuit, Physics, and Technology by Frank Schwierz is the most comprehensive and up-to-date guide to the latest advances in nanometer CMOS technology. This book provides a thorough understanding of the fundamental principles and challenges of designing, simulating, and fabricating modern CMOS circuits.

The book begins with an overview of the history and evolution of CMOS technology. It then covers the basic principles of CMOS devices, including the physics of transistors, the layout of circuits, and the fabrication process. The book also discusses the challenges of scaling CMOS devices to nanometer dimensions, and the new techniques that are being developed to overcome these challenges.

Nanometer CMOS: Circuit, Physics, and Technology is a valuable resource for anyone who is interested in the design, simulation, or fabrication of modern CMOS circuits. The book is also an excellent reference for students and researchers who are interested in the latest advances in semiconductor technology.

## Key Features

- Comprehensive coverage of the latest advances in nanometer CMOS technology
- Thorough understanding of the fundamental principles and challenges of designing, simulating, and fabricating modern CMOS circuits
- Discussion of the challenges of scaling CMOS devices to nanometer dimensions
- Examination of the new techniques that are being developed to overcome these challenges
- Valuable resource for anyone who is interested in the design, simulation, or fabrication of modern CMOS circuits
- Excellent reference for students and researchers who are interested in the latest advances in semiconductor technology

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### **Author Biography**

Frank Schwierz is a professor of electrical engineering at the Technical University of Munich. He is a leading expert in the field of nanometer CMOS technology, and he has published over 200 papers on the subject. Dr. Schwierz is a Fellow of the Institute of Electrical and Electronics Engineers (IEEE), and he is the recipient of the IEEE Electron Devices Society's J.J. Ebers Award.

### **Reviews**

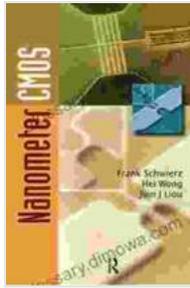
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"Nanometer CMOS: Circuit, Physics, and Technology by Frank Schwierz is an excellent reference for students and researchers who are interested in the latest advances in semiconductor technology." - Professor Karl Hess, University of California, Berkeley

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