Semiconductor Device Fundamentals

with Computer-Based Exercises and Homework Problems

Robert F. Pierret

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Semiconductor Device Fundamentals Robert F. Pierret,1996-01 *Parameter-Centric Scaled FET Devices* Nabil Shovon Ashraf,2025-03-26 Parameters that determine the performance of silicon based Field Effect Transistors FET devices in the presence of degenerate doping often are not modeled properly and so require precise analysis to improve modeling accuracy The book is focused on the extraction of parameters for silicon based FET models that critically determine the FET performance at room temperature as well as at very low temperatures Emphasize is put on analysis that is based on the device physics especially at low cryogenic temperatures Performance of gate all around GAA nanowire FETs and stacked nanosheet complementary FETs C FET are also discussed Fundamentals Of Nanotransistors Mark S Lundstrom,2017-07-11 The transistor is the key enabler of modern electronics Progress in transistor scaling has pushed channel lengths to the nanometer regime where traditional approaches to device physics are less and less suitable These lectures describe a way of understanding MOSFETs and other transistors that is much more suitable than traditional approaches when the critical dimensions are measured in nanometers It uses a novel bottom up approach that agrees with traditional methods when devices are large but that also works for nano devices Surprisingly the final result looks much like the traditional textbook transistor models but the parameters in the equations have simple clear interpretations at the nanoscale The objective is to provide readers with an understanding of the essential physics of nanoscale transistors as well as some of the practical technological considerations and fundamental limits This book is written in a way that is broadly accessible to students with only a very basic knowledge of semiconductor physics and electronic circuits *Transistors!* Mark S Lundstrom,2022-12-19 Current leading edge CMOS transistors are about as small as they will get We now have a simple clear very physical understanding of how these devices function but it has not yet entered our textbooks Besides CMOS logic transistors power transistors are increasingly important as are III V heterostructure transistors for high frequency communication Transistor reliability is also important but rarely treated in introductory textbooks As we begin a new era in which making transistors smaller will no longer be a major driving force for progress it is time to look back at what we have learned in transistor research Today we see a need to convey as simply and clearly as possible the essential physics of the device that makes modern electronics possible That is the goal of these lectures This volume rearranges the familiar topics and distills the most essential among them while adding most recent approaches which have become crucial to the discussion To follow the lectures readers need only a basic understanding of semiconductor physics Familiarity with transistors and electronic circuits is helpful but not assumed Related Link s Semiconductor Device Fundamentals ,2005 **Fabrication of Hydrogen-sensitive PD-gate Thin Film Transistors** Dai-Yin Li,2003 **Kinetic Lattice Monte Carlo Simulation of Defect Migration and Clustering in Silicon** Benjamin Philip Haley,2005 *Advanced Semiconductor Fundamentals* Robert F. Pierret,1987 This book presents the underlying functional formalism routinely used

in describing the operational behavior of solid state devices   *Solutions Manual* Robert F. Pierret,1996   **Field Effect Devices** Robert F. Pierret,1990 The second edition examines in detail three of the most basic members of the field device family to introduce the reader to relevant terms concepts models and analytical procedures   **Advanced Semiconductor Fundamentals** Robert F. Pierret,2003 Advanced Semiconductor Fundamentals Second Edition by Robert F Pierret is an advanced level presentation of the underlying functional formalism routinely used in describing the operational behavior of solid state devices The second edition provides an update of the topic presentation semiconductor parametric information and relevant references throughout the volume There is also a 50% increase in the end of chapter problems Given the success of the first edition the second edition retains the same overall material coverage and a pedagogical approach in introducing necessary concepts models and formalism   Semiconductor Fundamentals Robert F. Pierret,1983

Forthcoming Books Rose Arny,1988   *VLSI Handbook* Joseph Di Giacomo,1989 Very Good No Highlights or Markup all pages are intact   *Advanced Semiconductor Fundamentals* Pierret,2002-12   *Bibliographic Guide to Technology* New York Public Library. Research Libraries,1978   *An Introduction to Semiconductor Devices* Donald A. Neamen,   **Choice** ,1983   *Books in Print* ,1994   *Scientific and Technical Books and Serials in Print* ,1989

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