

Physics of Semiconductor Devices

2nd Edition



By Simon M Sze Semiconductor Devices Physics And Technology 2nd Edition

Simon M. Sze, Ming-Kwei Lee



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SEMICONDUCTOR DEVICES: PHYSICS AND TECHNOLOGY, 2ND ED S.M.Sze,2008-06 Market_Desc Electrical Engineers Scientists Special Features Provides strong coverage of all key semiconductor devices Includes basic physics and material properties of key semiconductors Covers all important processing technologies About The Book This book is an introduction to the physical principles of modern semiconductor devices and their advanced fabrication technology It begins with a brief historical review of major devices and key technologies and is then divided into three sections semiconductor material properties physics of semiconductor devices and processing technology to fabricate these semiconductor devices

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Physics of Semiconductor Devices S. M. Sze, 1969 *Semiconductor Devices, Physics and Technology* S. M. Sze, 2013 *Advanced MOS Device Physics* Norman Einspruch, 2012-12-02 VLSI Electronics Microstructure Science Volume 18 *Advanced MOS Device Physics* explores several device physics topics related to metal oxide semiconductor MOS technology The emphasis is on physical description modeling and technological implications rather than on the formal aspects of device theory Special attention is paid to the reliability physics of small geometry MOSFETs Comprised of eight chapters this volume begins with a general picture of MOS technology development from the device and processing points of view The critical issue of hot carrier effects is discussed along with the device engineering aspects of this problem the emerging low temperature MOS technology and the problem of latchup in scaled MOS circuits Several device models that are suitable for use in circuit simulators are also described The last chapter examines novel electron transport effects observed in ultra small MOS structures This book should prove useful to semiconductor engineers involved in different aspects of MOS technology development as well as for researchers in this field and students of the corresponding disciplines

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twenty four chapters of the second edition has been thoroughly updated **Subject Guide to Books in Print** ,1996

Digital Integrated Circuit Design Hubert Kaeslin,2008-04-28 This practical tool independent guide to designing digital circuits takes a unique top down approach reflecting the nature of the design process in industry Starting with architecture design the book comprehensively explains the why and how of digital circuit design using the physics designers need to know and no more

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