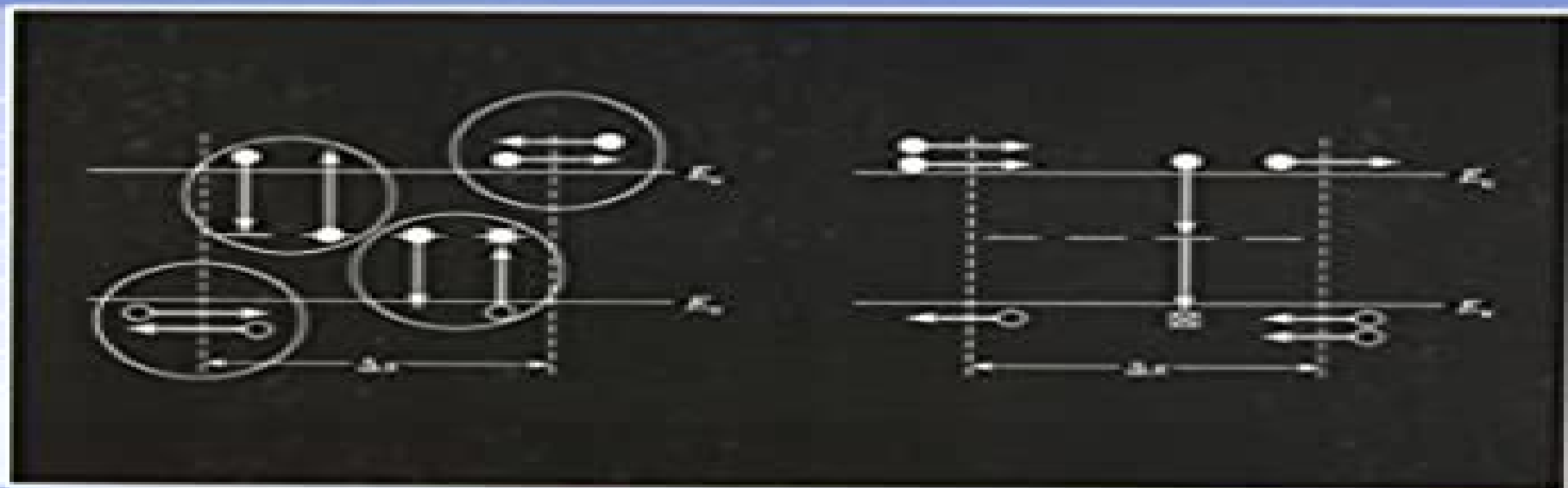


VOLUME VI

ADVANCED SEMICONDUCTOR FUNDAMENTALS

SECOND EDITION

ROBERT F. PIERRET



Modular Series on Solid State Devices
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of the MOS Transistor Yannis Tsividis, Colin McAndrew, 2011 The MOS Metal Oxide Semiconductor transistor is the most important building block of modern silicon integrated circuits This book fills an important gap in the literature by presenting a unified treatment of the operation and modeling of the MOS transistor that is complemented with extensive intuitive discussions The MOS transistor is the dominant VLSI Very Large Scale Integration device and understanding of this device is mandatory for those people planning a career in device physics and modeling as well as in circuit design Especially important for university courses there is a logical systematic and progressive description that starts with semiconductor fundamentals and builds up to a comprehensive understanding of the basics of MOS transistors For practicing professionals there are details of nuances observed in MOS transistor behavior and various approaches to modeling these are presented Detailed derivations are given for modeling dc currents charges for large signal operation small signal operation at low frequencies and high frequencies and noise

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characteristics for IC design and manufacturing Thus this book caters to practicing engineers transitioning to FinFET technology and prepares the next generation of device engineers and academic experts on mainstream device technology at the nanometer nodes **Forthcoming Books** Rose Arny,2002 **Semiconductor Fundamentals** ,2023 Electric Circuits James William Nilsson,Susan A. Riedel,2005 **The Cumulative Book Index** ,1999 **Systematic Analysis of Bipolar and MOS Transistors** Uğur Çilingiroğlu,1993 Systematic Analysis of Bipolar and MOS Transistors is a self contained reference that walks you through the logical processes involved in transistor analysis Linking device and circuit engineering it shows you how to use device models intelligently tailor existing models and develop new ones Polymer Electrolyte-gated Organic Field-effect Transistors Matthew J. Panzer,2007 **Si/SiGeC Quantum Well Avalanche Diodes** Jami Alisa Meteer,2005 Principles of Electronic Circuits Stanley G. Burns,Paul R. Bond,1997 Accompanying CD ROM includes Evaluation version of PSPICE SPICE netlists Electronic Workbench circuit models and Acrobat transparencies

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