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SEMICONDUCTOR PHYSICS AND DEVICES

Basic Principles

Donald A. Neamen

Fourth Edition

Physics Of Semiconductor Devices Solution

Ying-Ying Zheng



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Semiconductor Physics and Devices Donald A. Neamen,2003 This text aims to provide the fundamentals necessary to understand semiconductor device characteristics operations and limitations Quantum mechanics and quantum theory are explored and this background helps give students a deeper understanding of the essentials of physics and semiconductors

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Solutions Manual Robert F. Pierret,1996

Multigrid Methods for Semiconductor Device Simulation J. Molenaar,1993

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Analysis of Intrinsic MOS Devices and Parasitic Effects Using Solutions of Poisson's Equation Stanford University. Stanford Electronics Laboratories. Integrated Circuits Laboratory, James Allan Greenfield, 1983

Hot Carrier Modeling in Metal-oxide-semiconductor Devices Using the Convective Scheme Deborah Ann Fixel, 2007

A Selected Listing of NASA Scientific and Technical Reports for ... United States. National Aeronautics and Space Administration. Scientific and Technical Information Division, 1966

Fundamentals of Semiconductors Peter YU, Manuel Cardona, 2005-03-23 Excellent bridge between general solid state physics textbook and research articles packed with providing detailed explanations of the electronic vibrational transport and optical properties of semiconductors The most striking feature of the book is its modern outlook provides a wonderful foundation The most wonderful feature is its efficient style of exposition an excellent book Physics Today Presents the theoretical derivations carefully and in detail and gives thorough discussions of the experimental results it presents This makes it an excellent textbook both for learners and for more experienced researchers wishing to check facts I have enjoyed reading it and strongly recommend it as a text for anyone working with semiconductors I know of no better text I am sure most semiconductor physicists will find this book useful and I recommend it to them Contemporary Physics Offers much new material an extensive appendix about the important and by now well established deep center known as the DX center additional problems and the solutions to over fifty of the problems at the end of the various chapters

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