

Principles of Semiconductor Devices



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Sima Dimitrijević



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, 2004 **Government Reports Annual Index: Keyword A-L**, 1983 *Interference Problems on Wing-fuselage*
Combinations in Inviscid, Incompressible Flow Aeronautical Research Council (Great Britain), J. Weber, M. Gaynor Joyce, 1974
Principles of Semiconductor Devices Sima Dimitrijevic, 2006-12 Semiconductor Devices Jasprit Singh, 2001
Physical Principles of Semiconductor Devices Harry E. Talley, Don G. Daugherty, 1976 Semiconductor Physics
and Devices Donald A. Neamen, 1997-01 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 semiconductor material physics and semiconductor
device physics and how they interrelate Throughout the text new computer driven problems and examples have been added
using numerical techniques MATLAB Mathcad and PSpice and the whole edition emphasizes the value of the computer as a
tool in design and problem solving **Principles of Semiconductor Devices** Bart Jozef Van Zeghbroeck, 2011 The goal of
this text is to provide the basic principles of common semiconductor devices with a special focus on Metal Oxide
Semiconductor Field Effect Transistors MOSFETs **Operating Principles of Semiconductor Devices** Shamus
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devices are used in computers hand held devices and cell phones They are also used to control the power in refrigerators
ovens and dish washers They are used extensively in the cars we drive the trains we ride in and the airplanes we fly in
Semiconductor devices are also the principle component of solar panels on our homes In short semiconductor devices are
present in most anything that pertains to energy communications or information This book is an introduction to the operating
principles of these semiconductor devices This book is appropriate for undergraduate students in engineering Principles
of the Physics of Semiconductor Devices I. A. Kov Andreievich Fedotov, 1968 *Semiconductor Devices, 2nd Edition* John
Sparkes, 1994-07-28 Since its inception the Tutorial Guides in Electronic Engineering series has met with great success
among both instructors and students Designed for first and second year undergraduate courses each text provides a concise
list of objectives at the beginning of every chapter key definitions and formulas highlighted in margin notes and references to
other texts in the series Semiconductor Devices begins with a review of the necessary basic background in semiconductor
materials and what semiconductor devices are expected to do that is their typical applications Then the author explains in
order of increasing complexity the main semiconductor devices in use today beginning with p n junctions in their various

forms and ending with integrated circuits In doing so he presents both the band model and the bond model of semiconductors since neither one on its own can account for all device behavior The final chapter introduces more recently developed technologies particularly the use of compound instead of silicon semiconductors and the improvement in device performance these materials make possible True to the Tutorial Guides in Electronic Engineering series standards Semiconductor Devices offers a clear presentation a multitude of illustrations and fully worked examples supported by end of chapter exercises and suggestions for further reading This book provides an ideal introduction to the fundamental theoretical principles underlying the operation of semiconductor devices and to their simple and effective mathematical modelling

Solutions Manual for Principles of Semiconductor Devices Sima Dimitrijevic, 2011-03 *Principles of Electronic Materials and Devices* Safa O. Kasap, 2002 **Instructor's Solutions Manual for Principles of Semiconductor Devices, International Second Edition** Sima Dimitrijevic, 2012 **Fundamentals of Semiconductor Devices** Joseph Lindmayer, Charles Y. Wrigley, 1965

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