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~~Transistors - Electronics Basics 22
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Basic Principles Fourth ...

Physics of Semiconductor Devices,
4th Edition. Simon M. Sze, Yiming Li,
Kwok K. Ng. ISBN: 978-1-119-42911-1
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Semiconductor Physics and Devices:
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D. A. Neamen Problem Solutions

Chapter 3 3.1 If α_0 were to increase,
the bandgap energy would decrease

and the material would begin to
behave less like a semiconductor and
more like a metal. If α_0 were to

decrease, the bandgap energy would
increase and the material would begin
to behave more like an insulator. 3.2

wave equation is: $\nabla^2 \psi + k^2 \psi = 0$

Assume the solution is of the form: $\psi = E$
 $e^{j(kx - \omega t)}$ Region ...

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and has remarkable pedagogy
features like examples and knowledge
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questions and problems which further

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promote interest towards the subject.

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Donald A Neamen, Dhruves Biswas,
[Semiconductor Physics and Devices],
4th Edition, MCGraw Hill Education,
2012, ISBN 978-0-07-107010-2.

ELECTRONIC DEVICES(18EC33)

Chapters4 through6 cover the
semiconductor material physics.

Chapter4 presents the physics of the
semiconductor in thermal equilibrium;

Chapter 5 treats the transport
phenomena of the charge carriers in a
semiconductor. The nonequilibrium
excess carrier characteristics are then
developed in Chapter 6.

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With its strong pedagogy, superior readability, and thorough examination of the physics of semiconductor material, Semiconductor Physics and Devices, 4/e provides a basis for understanding the characteristics, operation, and limitations of semiconductor devices. Neamen's Semiconductor Physics and Devices deals with the electrical properties and characteristics of semiconductor materials and devices. The goal of this book is to bring together quantum mechanics, the quantum theory of solids, semiconductor material physics, and semiconductor device physics in a clear and understandable way.

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and comprehensive single-volume reference on major semiconductor devices The Fourth Edition of Physics of Semiconductor Devices remains the standard reference work on the fundamental physics and operational characteristics of all major bipolar, unipolar, special microwave, and optoelectronic devices. This fully updated and expanded edition includes approximately 1,000 references to original research papers and review articles, more than 650 high-quality technical illustrations, and over two dozen tables of material parameters. Divided into five parts, the text first provides a summary of semiconductor properties, covering energy band, carrier concentration, and transport properties. The second part surveys the basic building blocks of semiconductor devices, including p-

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n junctions, metal-semiconductor contacts, and metal-insulator-semiconductor (MIS) capacitors. Part III examines bipolar transistors, MOSFETs (MOS field-effect transistors), and other field-effect transistors such as JFETs (junction field-effect-transistors) and MESFETs (metal-semiconductor field-effect transistors). Part IV focuses on negative-resistance and power devices. The book concludes with coverage of photonic devices and sensors, including light-emitting diodes (LEDs), solar cells, and various photodetectors and semiconductor sensors. This classic volume, the standard textbook and reference in the field of semiconductor devices: Provides the practical foundation necessary for understanding the devices currently in use and evaluating

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Solution Manual

the performance and limitations of future devices Offers completely updated and revised information that reflects advances in device concepts, performance, and application Features discussions of topics of contemporary interest, such as applications of photonic devices that convert optical energy to electric energy Includes numerous problem sets, real-world examples, tables, figures, and illustrations; several useful appendices; and a detailed solutions manual Explores new work on leading-edge technologies such as MODFETs, resonant-tunneling diodes, quantum-cascade lasers, single-electron transistors, real-space-transfer devices, and MOS-controlled thyristors

Physics of Semiconductor Devices, Fourth Edition is an indispensable resource for design engineers,

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research scientists, industrial and electronics engineering managers, and graduate students in the field.

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***Supplement and Review Mini-Chapters** after each of the text's three parts contain an extensive review list of terms, test-like problem sets with answers, and detailed suggestions on supplemental reading to reinforce students' learning and help them prepare for exams. ***Read-Only Chapters**, strategically placed to provide a change of pace during the course, provide informative, yet enjoyable reading for students. ***Measurement Details and Results** samples offer students a realistic perspective on the seldom-perfect nature of device characteristics, contrary to the way they are often represented in introductory texts.

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Physics of Semiconductor Devices, Third Edition offers engineers, research scientists, faculty, and students a practical basis for understanding the most important devices in use today and for evaluating future device performance and limitations. A Solutions Manual is available from the editorial department.

This book disseminates the current knowledge of semiconductor physics and its applications across the scientific community. It is based on a biennial workshop that provides the participating research groups with a stimulating platform for interaction and collaboration with colleagues from the same scientific community. The book discusses the latest developments in the field of III-nitrides; materials &

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The 3rd edition of this successful textbook contains ample material for a comprehensive upper-level undergraduate or beginning graduate course, guiding readers to the point where they can choose a special topic and begin supervised research. The textbook provides a balance between essential aspects of solid-state and semiconductor physics, on the one hand, and the principles of various semiconductor devices and their applications in electronic and photonic devices, on the other. It highlights many practical aspects of

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Semiconductors such as alloys, strain, heterostructures, nanostructures, that are necessary in modern semiconductor research but typically omitted in textbooks. Coverage also includes additional advanced topics, such as Bragg mirrors, resonators, polarized and magnetic semiconductors, nanowires, quantum dots, multi-junction solar cells, thin film transistors, carbon-based nanostructures and transparent conductive oxides. The text derives explicit formulas for many results to support better understanding of the topics. The Physics of Semiconductors requires little or no prior knowledge of solid-state physics and evolved from a highly regarded two-semester course. In the third edition several topics are extended and treated in more depth including surfaces, disordered

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