

Practice Problems- Band Theory of solids and Semiconductors

1. Refer to the class notes on band structure of solid. In the case of periodically placed delta function potential, show that the wave function for a particle in the periodic delta function potential can be written in the form

$$\psi(x) = C[\sin(kx) + e^{-iKa} \sin(k(a-x))], \quad 0 \leq x \leq a.$$

2. Find the energy at the top of the first allowed band, for the case $\beta = 5$, correct to three significant digits. For the sake of argument, assume $a/a = 1$.
3. Find the Fermi energy of copper metal. The electron density in copper is $8.5 \times 10^{28} \text{electrons/m}^3$.

[Ans. 7.04 eV]

4. An electron beam strikes a crystal of cadmium sulfide (CdS). Electrons scattered by the crystal move at a velocity of $4.4 \times 10^5 \text{ m/s}$. Calculate the energy of the incident beam. Express your result in eV. CdS is a semiconductor with a band gap, E_g , of 2.45 eV.
(Hint: $E_{\text{incident}} = E_{\text{emitted}} + E_{\text{scattered}}$).

5. The number of electron-hole pairs in intrinsic germanium (Ge) is given by:

$$n_i = 9.7 \times 10^{15} \times T^{3/2} \times e^{\frac{-E_g}{2kT}} \text{ cm}^{-3}$$

($E_g = 0.72 \text{ eV}$)

- (a) What is the density of pairs at $T = 20 \text{ deg-C}$?
 - (b) Will undoped Ge be a good conductor at 200 deg-C ? If so, why?
6. If no electron-hole pairs were produced in germanium (Ge) until the temperature reached the value corresponding to the energy gap, at what temperature would Ge become conductive? ($E_{\text{gap}} = 3/2kT$)
 7. Given $\mu_p = 470 \text{ cm}^2/\text{V.s}$ for Si, what is the hole drift velocity at $\mathcal{E} = 10^3 \text{ V/cm}$. What is τ_{avg} and what is the average distance traveled between collisions, i.e., the mean free path ? (Ans. mean free path = 22nm).
 8. What is the hole diffusion constant in a piece of silicon doped with $3 \times 10^{15} \text{ cm}^{-3}$ of donors and $7 \times 10^{15} \text{ cm}^{-3}$ of acceptors at 300 K? at 400 K? [Ans. $7.6 \text{ cm}^2/\text{V.s}$]

Semiconductors Their Theory Practice

Shadia Ikhmayies



Semiconductors Their Theory Practice:

Export-import Theory, Practices, and Procedures Belay Seyoum, 2009 Export Import Theory Practices and Procedures is the first book on the market to truly serve the needs of the academic professional audience going beyond the usual soft coverage of international trade operations. Discussing theoretical issues in depth such as the role of exports imports in the global economy and pertinent regulatory and policy issues, this innovative text offers comprehensive explorations of import processes as well as export activities and incorporates the most relevant and current research information in these areas. New to this edition are important discussions of trends in regional integration agreements, international transfer pricing, terms of sale, US export regulations, export financing programs, and more. Expanded coverage in this edition of topics such as taxation of international trade operations, export counseling, export channels of distribution, export sales contracts, transportation, import procedures and techniques, and more. Other topics include Exploration of trade agreements such as the GATT, WTO, NAFTA, and the European Economic Community (EEC) and how they affect trade. In depth treatment of investment and intellectual property policies, rules on government procurements, safeguard and services of NAFTA, Documentation risks and different forms of insurance as well as assessing the risks of foreign trade. Price setting in international trade, export sales contracts, exchange rates, methods of payment for exporting and importing goods, the benefits and theories of countertrade, the entry process for imports and import relief to domestic industry. *Export-Import Theory, Practices, and Procedures* Second Edition combines an innovative conceptual and theoretical approach, a deep and broad analytical treatment, and an engaging and accessible presentation style to offer one of the most useful textbooks on the market for students and practitioners alike. Further, instructors' materials can be accessed via www.nova.edu/seyoum. *Export-Import Theory, Practices, and Procedures* Erdener Kaynak, Belay Seyoum, 2014-05-22 Learn the ins and outs of the export import business. *Export-Import Theory, Practices, and Procedures* is a comprehensive and in depth analysis of international trade theories and techniques. International trade professionals, researchers, students, and members of chambers of commerce will benefit from concepts and theories that explain international trade operations and give clearly defined goals and procedures for your business. This excellent text offers chapter summaries, references, World Wide Web addresses, and features learning aids such as figures, tables, vignettes, and other illustrations to help you compete in the global marketplace and better educate students in the field. With this informative text, you will explore trade agreements such as the GATT, WTO, NAFTA, and the European Economic Community (EEC) and how they affect trade. For example, you will read about the investment and intellectual property policies as well as rules on government procurements, safeguards, and services of NAFTA. *Export-Import Theory, Practices, and Procedures* examines export import marketing and strategy concepts from setting up businesses to solving typical international logistics and transportation questions. Other areas you will examine include documentation risks and different forms of insurance, price setting in international trade, export sales contracts, documenting export import trade

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Semiconductors W.M. Jr. Coughran, Julian Cole, Peter Lloyd, Jacob K. White, 2012-12-06 Semiconductor and integrated circuit modeling are an important part of the high technology chip industry whose high performance low cost microprocessors and high density memory designs form the basis for supercomputers engineering workstations laptop computers and other modern information appliances There are a variety of differential equation problems that must be solved to facilitate such modeling This two volume set covers three topic areas process modeling and circuit simulation in Volume I and device modeling in Volume II Process modeling provides the geometry and impurity doping characteristics that are prerequisites for device modeling device modeling in turn provides static current and transient charge characteristics needed to specify the so called compact models employed by circuit simulators The goal of these books is to bring together scientists and mathematicians to discuss open problems algorithms to solve such and to form bridges between the diverse disciplines involved

The Story of Semiconductors John W. Orton, 2008-12-11 The book provides an overview of the fascinating spectrum of semiconductor physics devices and applications presented from a historical perspective It covers the development of the subject from its inception in the early nineteenth century to the recent millennium Written in a lively informal style it emphasizes the interaction between pure scientific push and commercial pull on the one hand and between basic physics materials and devices on the other It also sets the various device developments in the context of systems requirements and explains how such developments met wide ranging consumer demands It is written so as to appeal to students at all levels in physics electrical engineering and materials science to teachers lecturers and professionals working in the field as well as to a non specialist scientific readership

Semiconductor Laser Theory Prasanta Kumar Basu, Bratati Mukhopadhyay, Rikmantra Basu, 2015-06-17 Developed from the authors classroom tested material Semiconductor Laser Theory takes a semiclassical approach to teaching the principles structure and applications of semiconductor lasers Designed for graduate students in physics electrical engineering and materials science the text covers many recent developments including diode lasers

Making a Semiconductor Superpower Dong-Won Kim, 2023-09-29 This book provides real stories about the South Korean semiconductor community It explores the lives and careers of six influential semiconductor engineers who all studied at Korea Advanced Institute of Science and Technology KAIST under the mentorship of Dr Kim Choong Ki the most influential semiconductor professor in South Korea during the last quarter of the twentieth century Kim s students became known as Kim s Mafia because of the important positions they went on to hold in industry government and

academia This book will be of interest to semiconductor engineers and electronics engineers historians of science and technology and scholars and students of East Asian studies They were called Kim s Mafia Kim Choong Ki himself wouldn t have put it that way But it was true what semiconductor engineers in South Korea whispered about his former students They were everywhere Kim was the first professor in South Korea to systematically teach semiconductor engineering From 1975 when the nation had barely begun producing its first transistors to 2008 when he retired from teaching Kim trained more than 100 students effectively creating the first two generations of South Korean semiconductor experts Source IEEE Spectrum October 2022 *Semiconductors and Semimetals* ,1981-09-02 Semiconductors and Semimetals

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Narain Arora,2007-02-14 A reprint of the classic text this book popularized compact modeling of electronic and semiconductor devices and components for college and graduate school classrooms and manufacturing engineering over a decade ago The first comprehensive book on MOS transistor compact modeling it was the most cited among similar books in the area and remains the most frequently cited today The coverage is device physics based and continues to be relevant to the latest advances in MOS transistor modeling This is also the only book that discusses in detail how to measure device model parameters required for circuit simulations The book deals with the MOS Field Effect Transistor MOSFET models that are derived from basic semiconductor theory Various models are developed ranging from simple to more sophisticated models that take into account new physical effects observed in submicron transistors used in today s 1993 MOS VLSI technology The assumptions used to arrive at the models are emphasized so that the accuracy of the models in describing the device characteristics are clearly understood Due to the importance of designing reliable circuits device reliability models

are also covered Understanding these models is essential when designing circuits for state of the art MOS ICs *Advanced Semiconductors* Shadia Ikhmayies, 2025-08-21 This book presents comprehensive reviews on the synthesis characterization properties and applications of advanced semiconducting materials It explores modern inorganic organic and hybrid semiconductors and semiconductor physics through density functional theory Topics include morphology dependent properties in inorganic semiconductors and methods for tuning the electron transport properties of nanotube semiconductors Readers will also find discussions on earth abundant and environmentally friendly chalcogenide nanomaterials for photovoltaics the use of chalcogenides and oxide semiconductors in photoelectrochemical reactions and insights into defect formation during ion implantation in diamond and c BN thin films A thermomechanical response model for photothermal diffusion waves in rotating magnetized semiconductors is also presented This book provides readers with a solid foundation in recent developments and current technologies for producing and characterizing semiconductors as well as theoretical and computational tools

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