Semiconductor Fundamentals Session 3

Team



Postgraduate Program on Telecommunication Engineering Institut Sains dan Teknologi Nasional, Jakarta INDONESIA

Lecture 3

OUTLINE

- Semiconductor Fundamentals (cont'd)
 - Thermal equilibrium
 - Fermi-Dirac distribution
 - · Boltzmann approximation
 - Relationship between E_F and n, p
 - Degenerately doped semiconductor

Reading: Pierret 2.4-2.5; Hu 1.7-1.10

A. Postgraduate Program on Telecommunication Engineering

Semiconductor Fundamentals Instructor Guide

CH Cherryholmes

Semiconductor Fundamentals Instructor Guide:

Semiconductor Fundamentals Buck Engineering Co., Inc,Lab-Volt (Québec),1988 Semiconductor Fundamentals, Instructor Guide Lab-Volt Systems, Incorporated,2003-08-01 Fundamentals of Semiconductors Peter YU,Manuel Cardona,2007-05-08 This third updated edition of Fundamentals of Semiconductors attempts to fill the gap between a general solid state physics textbook and research articles by providing detailed explanations of the electronic vibrational transport and optical properties of semiconductors The approach is physical and intuitive rather than formal and pedantic Theories are presented to explain experimental results This textbook has been written with both students and researchers in mind Its emphasis is on understanding the physical properties of Si and similar tetrahedrally coordinated semiconductors The explanations are based on physical insights Each chapter is enriched by an extensive collection of tables of material parameters figures and problems Many of these problems lead the student by the hand to arrive at the results

Instructor's Manual for Understanding Fiber Optics Fifth Edition Jeff Hecht, 2022-08-02 An instruction manual for use with the fifth edition of Understanding Fiber Optics by Jeff Hecht This book includes an overview for instructors answers to quizzes and questions to think about published in the book worked out solutions to selected problems with equations and additional material to supplement the book This is the original manual prepared and published in 2006 along with the fifth edition of Understanding Fiber Optics with only minimal updates Catalog of Copyright Entries. Third Series Library of Congress. Copyright Office, 1961 Includes Part 1 Number 1 2 Books and Pamphlets Including Serials and Contributions to Periodicals January December Trade and Industrial Education, 1972 Trade and Industrial Education; Instructional Materials Ohio State University. Center for Vocational and Technical Education, 1972 Resources in Education, 1998

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