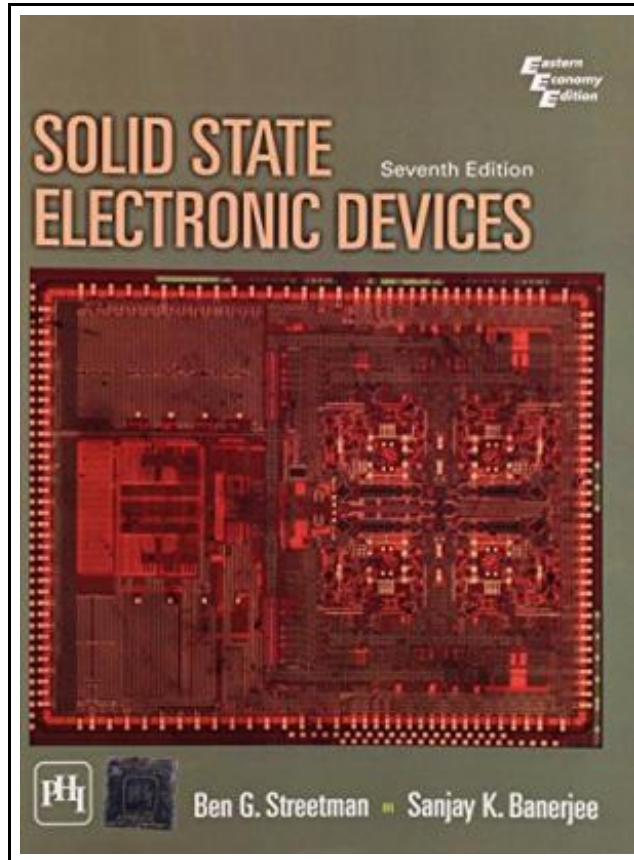


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PHI Learning 0. Softcover. Book Condition: New. 5th or later edition. 18 x 24 cm. Description: This book is an introduction to semiconductor devices for undergraduate electrical engineers, other interested students, and practicing engineers and scientists whose understanding of modern electronics needs updating. The book is organized to bring students with a background in basic physics to a level of understanding that will allow them to read much of the current literature on new devices and applications. The book has two goals: 1. To provide students with a sound understanding of existing devices, so that their studies of electronic circuits and systems will be meaningful and 2. To develop the basic tools with which they can later learn about newly developed devices and applications. Contents: PREFACE ABOUT THE AUTHORS 1. CRYSTAL PROPERTIES AND GROWTH OF SEMICONDUCTORS: 1.1 Semiconductor Materials, 1.2 Crystal Lattices, 1.3 Bulk Crystal Growth, 1.4 Epitaxial Growth, 1.5 Wave Propagation in Discrete, Periodic Structures 2. ATOMS AND ELECTRONS: 2.1 Introduction to Physical Models, 2.2 Experimental Observations, 2.3 The Bohr Model, 2.4 Quantum Mechanics, 2.5 Atomic Structure and the Periodic Table 3. ENERGY BANDS AND CHARGE CARRIERS IN SEMICONDUCTORS: 3.1 Bonding Forces and Energy Bands in Solids, 3.2 Charge Carriers in Semiconductors, 3.3 Carrier Concentrations, 3.4 Drift of Carriers in Electric and Magnetic Fields, 3.5 Invariance of the Fermi Level at Equilibrium 4. EXCESS CARRIERS IN SEMICONDUCTORS: 4.1 Optical Absorption, 4.2 Luminescence, 4.3 Carrier Lifetime and Photoconductivity, 4.4 Diffusion of Carriers 5. JUNCTIONS: 5.1 Fabrication of p-n Junctions, 5.2 Equilibrium Conditions, 5.3 Forward- and Reverse-Biased Junctions; Steady State Conditions, 5.4 Reverse-Bias Breakdown, 5.5 Transient and A-C Conditions, 5.6 Deviations from the Simple Theory, 5.7 Metal?Semiconductor Junctions, 5.8 Heterojunctions 6. FIELD-EFFECT TRANSISTORS: 6.1 Transistor Operation, 6.2 The Junction FET, 6.3 The Metal?Semiconductor FET, 6.4 The Metal?insulator?Semiconductor FET, 6.5 The MOS...



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