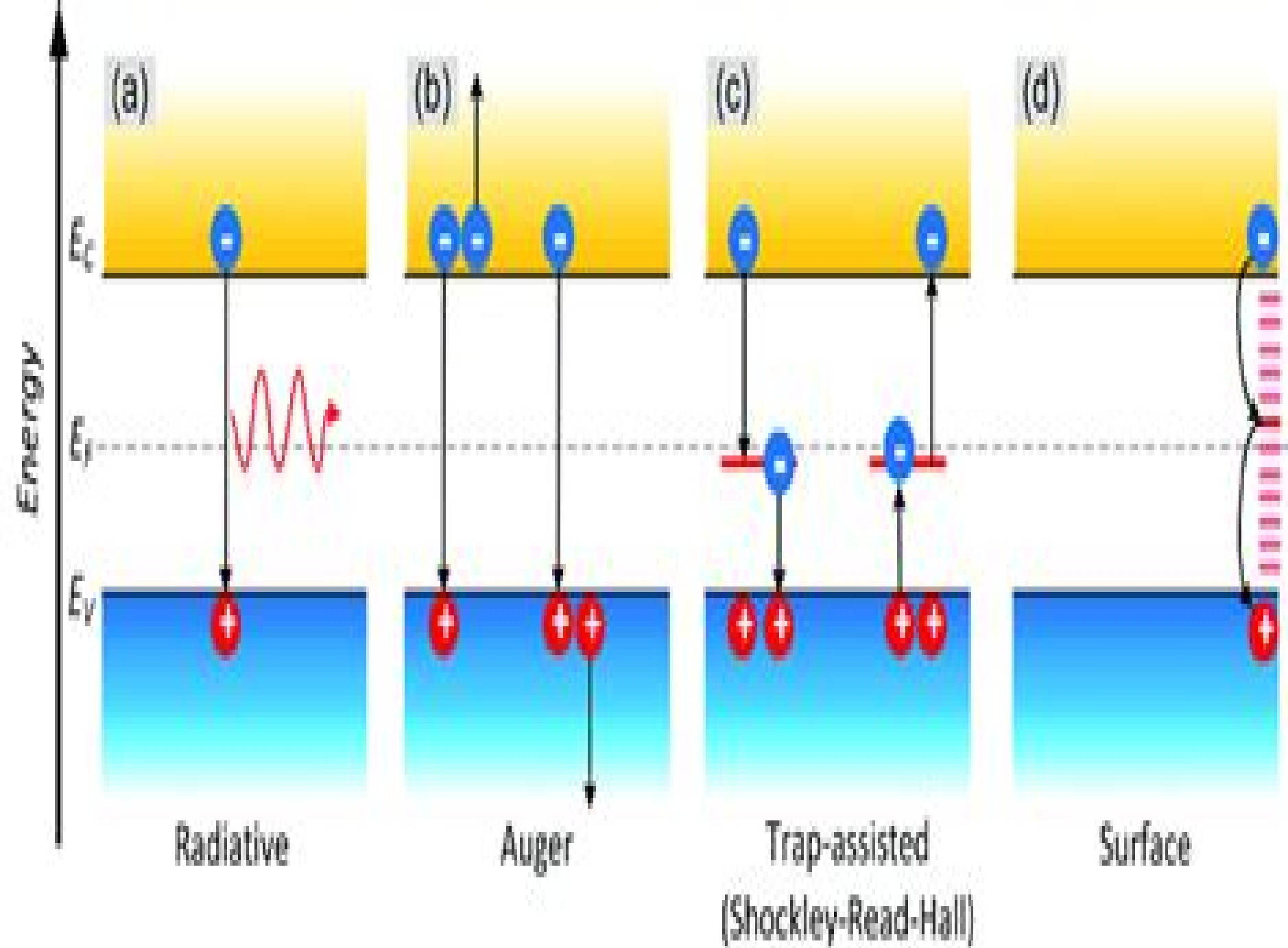




Recombination In Semiconductors

Peter YU, Manuel Cardona



Recombination In Semiconductors:

Nonradiative Recombination in Semiconductors V.N. Abakumov, V.I. Perel, I.N. Yassievich, 1991-07-26 In recent years great progress has been made in the understanding of recombination processes controlling the number of excess free carriers in semiconductors under nonequilibrium conditions. As a result it is now possible to give a comprehensive theoretical description of these processes. The authors have selected a number of experimental results which elucidate the underlying physical problems and enable a test of theoretical models. The following topics are dealt with: phenomenological theory of recombination; theoretical models of shallow and deep localized states; cascade model of carrier capture by impurity centers; capture restricted by diffusion; multiphonon processes; Auger processes; effect of electric field on capture and thermal emission of carriers.

Recombination in Semiconductors Peter T. Landsberg, 2003-10-16 This book is devoted to the main aspects of the physics of recombination in semiconductors. It is the first book to deal exclusively and comprehensively with the subject and as such is a self-contained volume introducing the concepts and mechanisms of recombination from a fundamental point of view. Professor Landsberg is an internationally acknowledged expert in this field and while not neglecting the occasional historical insights he takes the reader to the frontiers of current research. Following initial chapters on semiconductor statistics and recombination statistics the text moves on to examine the main recombination mechanisms: Auger effects, impact ionisation, radiative recombination, defect and multiphonon recombination. The final chapter deals with the topical subject of quantum wells and low dimensional structures. Altogether the book covers a remarkably wide area of semiconductor physics. The book will be of importance to physicists, electronic engineers and applied mathematicians who are studying or researching the physics and applications of semiconductors. Some parts of the book will be accessible to final year undergraduates.

Radiative Recombination in Semiconductors International Conference on the Physics of Semiconductors, 1964

Fundamentals of Semiconductors Peter Yu, Manuel Cardona, 2010-04-07 Excellent bridge between general solid state physics textbook and research articles packed with providing detailed explanations of the electronic vibrational transport and optical properties of semiconductors. The most striking feature of the book is its modern outlook provides a wonderful foundation. The most wonderful feature is its efficient style of exposition, an excellent book. Physics Today Presents the theoretical derivations carefully and in detail and gives thorough discussions of the experimental results it presents. This makes it an excellent textbook both for learners and for more experienced researchers wishing to check facts. I have enjoyed reading it and strongly recommend it as a text for anyone working with semiconductors. I know of no better text. I am sure most semiconductor physicists will find this book useful and I recommend it to them. Contemporary Physics Offers much new material, an extensive appendix about the important and by now well established deep center known as the DX center, additional problems and the solutions to over fifty of the problems at the end of the various chapters.

Semiconductor Material and Device Characterization Dieter K. Schroder, 2015-06-29 This Third Edition updates a

landmark text with the latest findings The Third Edition of the internationally lauded Semiconductor Material and Device Characterization brings the text fully up to date with the latest developments in the field and includes new pedagogical tools to assist readers Not only does the Third Edition set forth all the latest measurement techniques but it also examines new interpretations and new applications of existing techniques Semiconductor Material and Device Characterization remains the sole text dedicated to characterization techniques for measuring semiconductor materials and devices Coverage includes the full range of electrical and optical characterization methods including the more specialized chemical and physical techniques Readers familiar with the previous two editions will discover a thoroughly revised and updated Third Edition including Updated and revised figures and examples reflecting the most current data and information 260 new references offering access to the latest research and discussions in specialized topics New problems and review questions at the end of each chapter to test readers understanding of the material In addition readers will find fully updated and revised sections in each chapter Plus two new chapters have been added Charge Based and Probe Characterization introduces charge based measurement and Kelvin probes This chapter also examines probe based measurements including scanning capacitance scanning Kelvin force scanning spreading resistance and ballistic electron emission microscopy Reliability and Failure Analysis examines failure times and distribution functions and discusses electromigration hot carriers gate oxide integrity negative bias temperature instability stress induced leakage current and electrostatic discharge Written by an internationally recognized authority in the field Semiconductor Material and Device Characterization remains essential reading for graduate students as well as for professionals working in the field of semiconductor devices and materials An Instructor s Manual presenting detailed solutions to all the problems in the book is available from the Wiley editorial department

The Physics of Semiconductors Kevin F. Brennan, 1999-02-13 Modern fabrication techniques have made it possible to produce semiconductor devices whose dimensions are so small that quantum mechanical effects dominate their behavior This book describes the key elements of quantum mechanics statistical mechanics and solid state physics that are necessary in understanding these modern semiconductor devices The author begins with a review of elementary quantum mechanics and then describes more advanced topics such as multiple quantum wells He then discusses equilibrium and nonequilibrium statistical mechanics Following this introduction he provides a thorough treatment of solid state physics covering electron motion in periodic potentials electron phonon interaction and recombination processes The final four chapters deal exclusively with real devices such as semiconductor lasers photodiodes flat panel displays and MOSFETs The book contains many homework exercises and is suitable as a textbook for electrical engineering materials science or physics students taking courses in solid state device physics It will also be a valuable reference for practising engineers in optoelectronics and related areas

Narrow-gap Semiconductor Photodiodes Antoni Rogalski, Krzysztof Adamiec, Jaroslaw Rutkowski, 2000 In this monograph investigations of the performance of narrow gap semiconductor photodiodes are presented and recent

progress in different IR photodiode technologies is discussed HgCdTe photodiodes InSb photodiodes alternatives to HgCdTe III V and II VI ternary alloy photodiodes lead chalcogenide photodiodes and a new class of photodiodes based on two dimensional solids Investigations of the performance of photodiodes operated in different spectral regions are presented

Optical Semiconductor Devices Mitsuo Fukuda, 1998-12-24 This book is devoted to optical semiconductor devices and their numerous applications in telecommunications optoelectronics and consumer electronics areas where signal processing or the transmission of signals across fiber optic cables is paramount It introduces a new generation of devices that includes optical modulators quantum well QW lasers and photodiodes and explores new applications of more established devices such as semiconductor lasers light emitting diodes and photodiodes Mitsuo Fukuda examines the material properties operation principles fabrication packaging reliability and applications of each device and offers a unique industrial perspective discussing everything engineers and scientists need to know at different phases of research development and production This guide to the state of the art of optical semiconductor devices Helps you choose the right device for a given application Covers important performance data such as temperature and optical feedback noise in lasers Highlights epitaxial growth techniques and fabrication for each device Features one hundred figures and an extensive bibliography Provides a clear and concise treatment unencumbered by excessive theory *Optical Semiconductor Devices* is an essential resource for engineers and researchers in telecommunications and optoelectronics equipment designers and manufacturers and graduate students and scholars interested in this rapidly evolving field

Recombinaison radiative dans les semiconducteurs ,1965

Semiconductors and Semimetals ,1993-08-10 Semiconductors and Semimetals **Semiconductor Materials** B.G. Yacobi, 2006-04-18 The technological progress is closely related to the developments of various materials and tools made of those materials Even the different ages have been defined in relation to the materials used Some of the major attributes of the present day age i e the electronic materials age are such common tools as computers and fiber optic telecommunication systems in which semiconductor materials provide vital components for various mic electronic and optoelectronic devices in applications such as computing memory storage and communication The field of semiconductors encompasses a variety of disciplines This book is not intended to provide a comprehensive description of a wide range of semiconductor properties or of a continually increasing number of the semiconductor device applications Rather the main purpose of this book is to provide an introductory perspective on the basic principles of semiconductor materials and their applications that are described in a relatively concise format in a single volume Thus this book should especially be suitable as an introductory text for a single course on semiconductor materials that may be taken by both undergraduate and graduate engineering students This book should also be useful as a concise reference on semiconductor materials for researchers working in a wide variety of fields in physical and engineering sciences

Introduction to Semiconductor Physics and Devices Mykhaylo Evstigneev, 2022-09-29 This classroom tested textbook provides a self contained one semester course in semiconductor

physics and devices that is ideal preparation for students to enter burgeoning quantum industries Unlike other textbooks on semiconductor device physics it provides a brief but comprehensive introduction to quantum physics and statistical physics with derivations and explanations of the key facts that are suitable for second year undergraduates rather than simply postulating the main results The book is structured into three parts each of which can be covered in around ten lectures The first part covers fundamental background material such as quantum and statistical physics and elements of crystallography and band theory of solids Since this provides a vital foundation for the rest of the text concepts are explained and derived in more detail than in comparable texts For example the concepts of measurement and collapse of the wave function which are typically omitted are presented in this text in language accessible to second year students The second part covers semiconductors in and out of equilibrium and gives details which are not commonly presented such as a derivation of the density of states using dimensional analysis and calculation of the concentration of ionized impurities from the grand canonical distribution Special attention is paid to the solution of Poisson's equation a topic that is feared by many undergraduates but is brought back down to earth by techniques and analogies from first year physics Finally in the third part the material in parts 2 and 3 is applied to describe simple semiconductor devices including the MOSFET the Schottky and PN junction diodes and optoelectronic devices With a wide range of exercises this textbook is readily adoptable for an undergraduate course on semiconductor physics devices and with its emphasis on consolidating and applying knowledge of fundamental physics it will leave students in engineering and the physical sciences well prepared for a future where quantum industries proliferate

Physics of Semiconductor Devices J.-P. Colinge, C.A. Colinge, 2005-10-03 *Physics of Semiconductor Devices* covers both basic classic topics such as energy band theory and the gradual channel model of the MOSFET as well as advanced concepts and devices such as MOSFET short channel effects low dimensional devices and single electron transistors Concepts are introduced to the reader in a simple way often using comparisons to everyday life experiences such as simple fluid mechanics They are then explained in depth and mathematical developments are fully described *Physics of Semiconductor Devices* contains a list of problems that can be used as homework assignments or can be solved in class to exemplify the theory Many of these problems make use of Matlab and are aimed at illustrating theoretical concepts in a graphical manner

Electronic Devices and Integrated Circuits B. P. Singh, Rekha Singh, 2006-09 **Introduction to Semiconductors** Peter Sutter, 2025-08-05 This textbook provides a new perspective on the classic topic of Semiconductor Materials and Devices It aims at undergraduate and beginning graduate students in the physical sciences and in engineering This book combines two unique aspects i Making quantum mechanical concepts broadly accessible Rather than avoiding fundamental concepts such as electronic band structure and phonons as is the case in the established texts on semiconductors the book embraces and incorporates them as key building blocks While conceptually sound and rigorous this textbook avoids unnecessary detail to provide students with a solid understanding of key concepts while enabling rapid

progress toward the learning goals ii Extensive examples sourced from contemporary research Advanced topics from the current literature past 10 years are included as natural extensions to each chapter of the book These contemporary examples broaden the students knowledge beyond the typical content of an introductory textbook provide relevant literature references and encourage further reading and self study In this way the extensions help educate the students for careers in the post silicon era Provides a concise introduction to semiconductor materials and devices accessible to students of varying backgrounds Makes extensive use of current real examples to facilitate understanding and motivate further reading Prepares students for careers in semiconductor research and development device design and manufacturing

Noise Research in Semiconductor Physics N Lukyanchikova,B Jones,1997-03-19 This book demonstrates the role and abilities of fluctuation in semiconductor physics and shows what kinds of physical information are involved in the noise characteristics of semiconductor materials and devices how this information may be decoded and which advantages are inherent to the noise methods The text provides a comprehensive account of current results addressing problems which have not previously been covered in Western literature including the excess noise of tunnel recombination currents and photocurrents in diodes fluctuation phenomena in a real photoconductor with different recombination centers and methods of noise spectroscopy of levels in a wide range of materials and devices

Fundamentals of Power Semiconductor Devices B. Jayant Baliga,2010-04-02 Fundamentals of Power Semiconductor Devices provides an in depth treatment of the physics of operation of power semiconductor devices that are commonly used by the power electronics industry Analytical models for explaining the operation of all power semiconductor devices are shown The treatment here focuses on silicon devices but includes the unique attributes and design requirements for emerging silicon carbide devices The book will appeal to practicing engineers in the power semiconductor device community

A Handbook of Semiconductor Physics N.B. Singh, A Handbook of Semiconductor Physics serves as an indispensable guide tailored for absolute beginners seeking a comprehensive understanding of semiconductor physics Written with clarity and precision this handbook demystifies complex concepts and equations making them accessible and engaging for readers at all levels From fundamental principles to advanced topics each chapter provides clear explanations practical examples and insightful illustrations facilitating a smooth learning curve Whether you re a student researcher or enthusiast this book equips you with the essential knowledge and tools to navigate the fascinating world of semiconductor physics with confidence and curiosity

Surface Recombination in Semiconductors ,1995 **Physics of Semiconductors and Nanostructures** Jyoti Prasad Banerjee,Suranjana Banerjee,2019-06-11 This book is a comprehensive text on the physics of semiconductors and nanostructures for a large spectrum of students at the final undergraduate level studying physics material science and electronics engineering It offers introductory and advanced courses on solid state and semiconductor physics on one hand and the physics of low dimensional semiconductor structures on the other in a single text book Key Features Presents basic concepts of quantum theory solid state physics semiconductors

and quantum nanostructures such as quantum well quantum wire quantum dot and superlattice In depth description of semiconductor heterojunctions lattice strain and modulation doping technique Covers transport in nanostructures under an electric and magnetic field with the topics quantized conductance Coulomb blockade and integer and fractional quantum Hall effect Presents the optical processes in nanostructures under a magnetic field Includes illustrative problems with hints for solutions in each chapter Physics of Semiconductors and Nanostructures will be helpful to students initiating PhD work in the field of semiconductor nanostructures and devices It follows a unique tutorial approach meeting the requirements of students who find learning the concepts difficult and want to study from a physical perspective

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