

SEMICONDUCTORS AND SEMIMETALS

VOLUME 6

Injection Phenomena



Semiconductors And Semimetals Volume 6 Injection Phenomena

Harold J. Hovell



Semiconductors And Semimetals Volume 6 Injection Phenomena:

Semiconductors and Semimetals, 1970-09-30 *Semiconductors and Semimetals* *Semiconductors and Semimetals*
Jacques I. Pankove, 1984-10-11 *Semiconductors and Semimetals* **Semiconductors and Semimetals: Device applications** Jacques I. Pankove, 1984 *Semiconductors and Semimetals* Robert K. Willardson, 2004 *Nonlinear Dynamics and Chaos in Semiconductors* K Aoki, 2000-12-07 The field of nonlinear dynamics and low dimensional chaos has developed rapidly over the past twenty years The principal advances have been in theoretical aspects but more recent applications in a wide variety of the sciences have been made *Nonlinear Dynamics and Chaos in Semiconductors* is the first book to concentrate on specific physical and ex **Injection Phenomena** Robert K. Willardson, Albert C. Beer, 1970

Intersubband Transitions in Quantum Wells: Physics and Device Applications, 1999-10-28 Since its inception in 1966 the series of numbered volumes known as *Semiconductors and Semimetals* has distinguished itself through the careful selection of well known authors editors and contributors The Willardson and Beer series as it is widely known has succeeded in producing numerous landmark volumes and chapters Not only did many of these volumes make an impact at the time of their publication but they continue to be well cited years after their original release Recently Professor Eicke R Weber of the University of California at Berkeley joined as a co editor of the series Professor Weber a well known expert in the field of semiconductor materials will further contribute to continuing the series tradition of publishing timely highly relevant and long impacting volumes Some of the recent volumes such as *Hydrogen in Semiconductors* *Imperfections in III V Materials* *Epitaxial Microstructures* *High Speed Heterostructure Devices* *Oxygen in Silicon* and others promise that this tradition will be maintained and even expanded Reflecting the truly interdisciplinary nature of the field that the series covers the volumes in *Semiconductors and Semimetals* have been and will continue to be of great interest to physicists chemists materials scientists and device engineers in modern industry *Semiconductor Devices and Integrated Electronics* A. G. Milnes, 2012-12-06 For some time there has been a need for a semiconductor device book that carries diode and transistor theory beyond an introductory level and yet has space to touch on a wider range of semiconductor device principles and applications Such topics are covered in specialized monographs numbering many hundreds but the voluminous nature of this literature limits access for students This book is the outcome of attempts to develop a broad course on devices and integrated electronics for university students at about senior year level The educational prerequisites are an introductory course in semiconductor junction and transistor concepts and a course on analog and digital circuits that has introduced the concepts of rectification amplification oscillators modulation and logic and Switching circuits The book should also be of value to professional engineers and physicists because of both the information included and the detailed guide to the literature given by the references The aim has been to bring some measure of order into the subject area examined and to provide a basic structure from which teachers may develop themes that are of most interest to students and themselves

Semiconductor devices and integrated circuits are reviewed and fundamental factors that control power levels frequency speed size and cost are discussed The text also briefly mentions how devices are used and presents circuits and comments on representative applications Thus the book seeks a balance between the extremes of device physics and circuit design

Catalog of Copyright Entries. Third Series Library of Congress. Copyright Office,1973 **Electrical Insulating Liquids** R. Bartnikas,1994 **CRC Critical Reviews in Solid State Sciences** Chemical Rubber Company,1975

Dielectric Phenomena in Solids Kwan Chi Kao,2004-05-11 In general a dielectric is considered as a non conducting or insulating material such as a ceramic or polymer used to manufacture a microelectronic device This book describes the laws governing all dielectric phenomena A unified approach is used in describing each of the dielectric phenomena with the aim of answering what how and why for the occurrence of each phenomenon Coverage unavailable in other books on ferroelectrics piezoelectrics pyroelectrics electro optic processes and electrets Theoretical analyses are general and broadly applicable Mathematics is simplified and emphasis is placed on the physical insight of the mechanisms responsible for the phenomena Truly comprehensive coverage not available in the current literature **Nonlinear Dynamics and Pattern Formation in Semiconductors and Devices** Franz-Josef Niedernostheide,2013-03-08 In Nonlinear Dynamics and Pattern Formation in Semiconductors and Devices the contributions of the International Conference on Nonlinear Dynamics and Pattern Formation in the Natural Environment ICPF 94 in Noordwijkerhout held by many internationally reknown experts are compiled To connect the field of semiconductor physics with the theory of nonequilibrium dissipative systems the emphasis lies on the study of localized structures their stability and bifurcation behaviour A point of special interest is the evolution of dynamic structures and the investigation of more complex structures arising from interactions between these structures Possible applications of nonlinear effects and self organization phenomena with respect to signal processing are discussed

Tenth Annual Technical Report: July 1970 to June 1971 Stanford University. Center for Materials Research,1971

Nanostructured Systems ,1992-04-08 This is the first available volume to consolidate prominent topics in the emerging field of nanostructured systems Recent technological advancements have led to a new era of nanostructure physics allowing for the fabrication of nanostructures whose behavior is dominated by quantum interference effects This new capability has enthused the experimentalist and theorist alike Innumerable possibilities have now opened up for physical exploration and device technology on the nanoscale This book with contributions from five pioneering researchers will allow the expert and novice alike to explore a fascinating new field Provides a state of the art review of quantum scale artificially nanostructured electronic systemsIncludes contributions by world known experts in the fieldOpens the field to the non expert with a concise introductionFeatures discussions of Low dimensional condensed matter physicsProperties of nanostructured ultrasmall electronic systemsMesoscopic physics and quantum transportPhysics of 2D electronic systems **Cumulative Subject and Author Index Including Tables of Contents, Volumes 1-50** ,1998-09-15 Since its inception in 1966 the series of

numbered volumes known as Semiconductors and Semimetals has distinguished itself through the careful selection of well known authors editors and contributors The Willardson and Beer Series as it is widely known has succeeded in publishing numerous landmark volumes and chapters Not only did many of these volumes make an impact at the time of their publication but they continue to be well cited years after their original release Recently Professor Eicke R Weber of the University of California at Berkeley joined as a co editor of the series Professor Weber a well known expert in the field of semiconductor materials will further contribute to continuing the series tradition of publishing timely highly relevant and long impacting volumes Some of the recent volumes such as Hydrogen in Semiconductors Imperfections in III V Materials Epitaxial Microstructures High Speed Heterostructure Devices Oxygen in Silicon and others promise indeed that this tradition will be maintained and even expanded Reflecting the truly interdisciplinary nature of the field that the series covers the volumes in Semiconductors and Semimetals have been and will continue to be of great interest to physicists chemists materials scientists and device engineers in modern industry Subject Guide to Books in Print ,1993 Amorphous Silicon Technology ,1991 Revue de physique appliquée ,1984 **Solar Cells** Harold J. Hovell,1975

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