



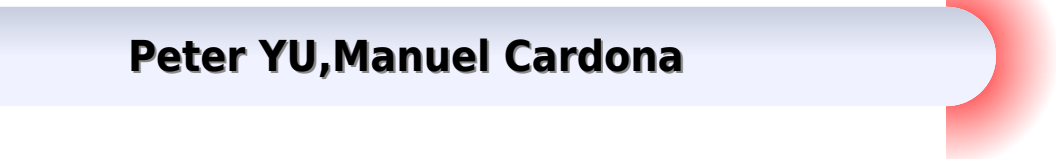
SEMICONDUCTOR PHYSICS

PRINCIPLES OF ELECTRONICS

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Semiconductor Physics

Peter YU, Manuel Cardona



Semiconductor Physics:

Semiconductor Physics Karlheinz Seeger, 2013-04-17 It is a pleasure to take the opportunity to express my sincere gratitude to many colleagues who provided valuable hints for improvements even including lists of misprints which I hope have now been completely eliminated. It is not possible to name all of them and so I will only mention the interesting discussions over so many years I had with Professor Hans W. P. Tz. of the Technical University of Vienna on the occasion of our common weekly semiconductor seminar. I am grateful to Professor H. J. Queisser and Professor M. Cardona for helpful criticism. Special thanks are due to Frau Jitka Fucik for typing and Frau Viktoria K. Ver for drawing services. The cooperation with Dr. H. K. Lotsch of Springer Verlag has been a pleasure. Vienna, January 1982. K. Seeger. Contents: 1 Elementary Properties of Semiconductors I 1.1 Insulator Semiconductor Semimetal Metal 1.1.2 The Positive Hole 3.1.3 Conduction Processes Compensation Law of Mass Action 4 Problems 8.2 Energy Band Structure 10.2.1 Single and Periodically Repeated Potential Well 10.2.2 Energy Bands by Tight Binding of Electrons to Atoms 17.2.3 The Brillouin Zone 21.2.4 Constant Energy Surfaces 30 Problems 33.3 Semiconductor Statistics 34.3.1 Fermi Statistics 35.3.2 Occupation Probabilities of Impurity Levels 39 Problems 45.4 Charge and Energy Transport in a Nondegenerate Electron Gas. *Physics of Semiconductor Devices* Simon M. Sze, Kwok K. Ng, 2006-12-13 The Third Edition of the standard textbook and reference in the field of semiconductor devices. This classic book has set the standard for advanced study and reference in the semiconductor device field. Now completely updated and reorganized to reflect the tremendous advances in device concepts and performance, this Third Edition remains the most detailed and exhaustive single source of information on the most important semiconductor devices. It gives readers immediate access to detailed descriptions of the underlying physics and performance characteristics of all major bipolar field effect microwave photonic and sensor devices. Designed for graduate textbook adoptions and reference needs, this new edition includes a complete update of the latest developments. New devices such as three dimensional MOSFETs MODFETs resonant tunneling diodes semiconductor sensors quantum cascade lasers single electron transistors real space transfer devices and more. Materials completely reorganized. Problem sets at the end of each chapter. All figures reproduced at the highest quality. *Physics of Semiconductor Devices* Third Edition offers engineers, research scientists, faculty and students a practical basis for understanding the most important devices in use today and for evaluating future device performance and limitations. A Solutions Manual is available from the editorial department. *Fundamentals of Semiconductor Physics and Devices*, 1997 This book is an introduction to the principles of semiconductor physics linking its scientific aspects with practical applications. It is addressed to both readers who wish to learn semiconductor physics and those seeking to understand semiconductor devices. It is particularly well suited for those who want to do both.

Semiconductor Devices Jasprit Singh, 2000-08-03 This introductory text designed for the first course in semiconductor physics presents a well balanced coverage of semiconductor physics and device operation and shows how devices are

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