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Solid State Physics Saxena Gupta - wiki.ctsnet.org Solid State Physics Saxena Gupta - modapktown.com Dr. Kumar has received M.Sc degree in Physics from University of Rajasthan, M.Tech degree in Solid State Materials from IIT Delhi and Ph.D degree in Engineering from IISc Bangalore.

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Dr. Bipin Kumar Gupta obtained his B. Sc. (Physics Hons.), M. Sc. (Solid State Physics) in first division from Banaras Hindu University, Varanasi, Uttar Pradesh, India in 1996 and 1998, respectively. He was awarded the CSIR-SRF fellowship of April 2001.

Introduction to Solid State Physics, in its Second Edition, provides a comprehensive introduction to the physical properties of crystalline solids. It explains the structure of crystals, theory of crystal diffraction and the reciprocal lattice. As the book advances, it describes different kinds of imperfections in crystals, bonding in solids, and vibration in one-dimensional monoatomic and diatomic linear lattice. Different theories of specific heat, thermal conductivity of solids and lattice thermal conductivity are thoroughly dealt with. Coverage also includes the free electron theory, band theory of solids and semiconductors. In addition, the book also describes in detail the magnetic properties of solids and superconductivity. Finally, the book includes discussions on lasers, nanotechnology and the basic principles of fibre optics and holography. Some new topics like cellular method, quantum Hall effect, de Haas van Alphen effect, Pauli paramagnetism and semiconductor laser have been added in the present edition of the book to make it more useful for the students. The book is designed to meet the requirements of undergraduate and postgraduate students of physics for their courses in solid state physics, condensed matter physics and material science. KEY FEATURES □ Puts a conceptual emphasis on the subject. □ Includes numerous diagrams and figures to clarify the concepts. □ Gives step-by-step explanations of theories. □ Provides chapter-end exercises to test the knowledge acquired.

Solid state physics is the branch of physics primarily devoted to the study of matter in its solid phase, especially at the atomic level. This prestigious serial presents timely and state-of-the-art reviews pertaining to all aspects of solid state physics.

The present edition is brought up to incorporate the useful suggestions from a number of readers and teachers for the benefit of students. A topic on common-collector configuration is added to the chapter XIII. A new chapter on

logic gates is introduced at the end. Keeping in view the present style of university Question papers, a number of very short, short and long thoroughly revised and corrected to remove the errors which crept into earlier editions.

This book disseminates the current knowledge of semiconductor physics and its applications across the scientific community. It is based on a biennial workshop that provides the participating research groups with a stimulating platform for interaction and collaboration with colleagues from the same scientific community. The book discusses the latest developments in the field of III-nitrides; materials & devices, compound semiconductors, VLSI technology, optoelectronics, sensors, photovoltaics, crystal growth, epitaxy and characterization, graphene and other 2D materials and organic semiconductors.

This revised and updated Fourth Edition of the text builds on the strength of previous edition and gives a systematic and clear exposition of the fundamental principles of solid state physics. The text covers the topics, such as crystal structures and chemical bonds, semiconductors, dielectrics, magnetic materials, superconductors, and nanomaterials. What distinguishes this text is the clarity and precision with which the author discusses the principles of physics, their relations as well as their applications. With the introduction of new sections and additional information, the fourth edition should prove highly useful for the students. This book is designed for the courses in solid state physics for B.Sc. (Hons.) and M.Sc. students of physics. Besides, the book would also be useful to the students of chemistry, material science, electrical/electronic and allied engineering disciplines. New to the Fourth Edition – Solved examples have been introduced to explain the fundamental principles of physics. – Matrix representation for symmetry operations has been introduced in Chapter 1 to enable the use of Group Theory for treating crystallography. – A section entitled “Other Contributions to Heat Capacity”, has been introduced in Chapter 5. – A statement on “Kondo effect (minimum)” has been added in Chapter 14. – A section on “Graphenes” has been introduced in Chapter 16. – The section on “Carbon Nanotubes”, in Chapter 16 has been revised. – A “Lesson on Group Theory”, has been added as Appendix.

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