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# SOLID STATE PHYSICS

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# Solid State Physics Gupta Kumar

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## **Solid State Physics Gupta Kumar:**

**INTRODUCTION TO SOLID STATE PHYSICS, Second Edition** KUMAR, ARUN, 2015-10-01 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 H. C. Gupta, 1995 **Solid State Physics:** Singh, 2011 Solid State Physics is written as per the core module syllabus of the major universities and targets undergraduate B Sc students The book uses lecture style in explaining the concepts which would facilitate easy understanding of the concepts The Indian Journal of Pure & Applied Physics , 2002 **Science Reporter** , 1993 **Solid State Physics, 2E** H C Gupta, 2001-04 **Lectures on Solid State Physics** Parveen Kumar, 2018-12-01 Solid State is the core subject of Science The subject has a wide scope and its application is extensive The Text book focuses the need of first level text book for graduate level students One of the salient features of this book is that it is written in a simple and lucid language with conceptual clarity The present Text book endeavours to provide relevant theory and principal of Solid State Physics and its applications I hope that this book will be of immense value to the technical teachers students as well as professionals *World Directory of Crystallographers* Yves Epelboin, 2013-11-11 The 9th edition of the World Directory of Crystallographers and of Other Scientists Employing Crystallographic Methods which contains 7907 entries embracing 72 countries differs considerably from the 8th edition published in 1990 The content has been updated and the methods used to acquire the information presented and to produce this new edition of the Directory have involved the latest advances in technology The Directory is now also available as a regularly updated electronic database accessible via e mail Telnet Gopher World Wide Web and Mosaic Full details are given in an Appendix to the printed edition World Directory of Crystallographers , 2013-11-11 **World Directory of Crystallographers** Allan L. Bednowitz, Armin P. Segmüller, 2013-04-17 A brief historical account of the background leading to the publication of the first

four editions of the World Directory of Crystallographers was presented by G Boom in his preface to the Fourth Edition published late in 1971 That edition was produced by traditional typesetting methods from compilations of biographical data prepared by national Sub Editors The major effort required to produce a directory by manual methods provided the impetus to use computer techniques for the Fifth Edition The account of the production of the first computer assisted Directory was described by S C Abrahams in the preface of the Fifth Edition Computer composition which required a machine readable data base offered several major advantages The choice of typeface and range of characters was flexible Corrections and additions to the data base were rapid and once established it was hoped updating for future editions would be simple and inexpensive The data base was put to other Union uses such as preparation of mailing labels and formulation of lists of crystallographers with specified common fields of interest The Fifth Edition of the World Directory of Crystallographers was published in June of 1977 the Sixth in May of 1981 The Subject Indexes for the Fifth and Sixth Editions were printed in 1978 and 1981 respectively both having a limited distribution

**SOLID STATE PHYSICS** V K BABBAR,1997 This book presents a comprehensive introduction to Solid State Physics for undergraduate students of pure and applied sciences and engineering disciplines It acquaints the students with the fundamental properties of solids starting from their properties The coverage of basic topics is developed in terms of simple physical phenomenon supplemented with theoretical derivations and relevant models which provides strong grasp of the fundamental principles of physics in solids in a concise and self explanatory manner **Energy Research Abstracts** ,1993-10 **Solid State Physics** A.J. Dekker,1958 *Solid State Physics* Gerald Burns,2013-11-06 Solid State Physics International Edition covers the fundamentals and the advanced concepts of solid state physics The book is comprised of 18 chapters that tackle a specific aspect of solid state physics Chapters 1 to 3 discuss the symmetry aspects of crystalline solids while Chapter 4 covers the application of X rays in solid state science Chapter 5 deals with the anisotropic character of crystals Chapters 6 to 8 talk about the five common types of bonding in solids while Chapters 9 and 10 cover the free electron theory and band theory Chapters 11 and 12 discuss the effects of movement of atoms and Chapter 13 talks about the optical properties of crystals Chapters 14 to 18 cover the other relevant areas of solid state physics such as ferroelectricity magnetism surface science and artificial structure The book will be of great use both to novice and experienced researchers in the field of solid state physics **Solid State Physics** Adrianus J. Dekker,1957

**Solid State Physics** Dr. Om Prakash Pahuja,2005-12 *Proceedings of the Nuclear Physics and Solid State Physics Symposium* ,1976 *Acta Ciencia Indica* ,1996 **Solid State Physics** Simon Fraser University Summer School on Solid State Physics,1968 **Solid State Physics** Simon Fraser University Summer School on Solid State Physics,1968

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