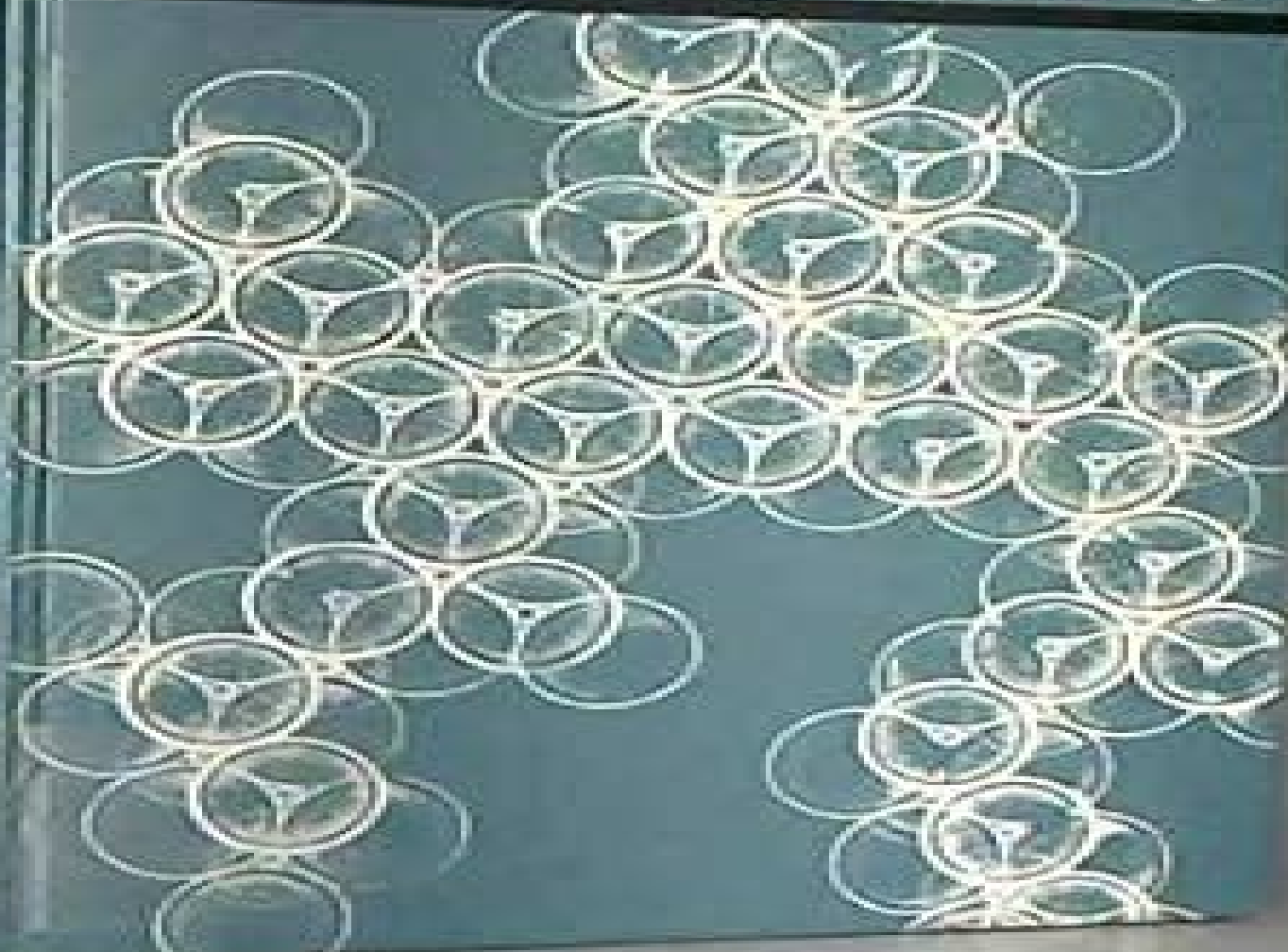


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Ibach, Hans Lüth, 2012-12-06 In recent decades solid state physics has seen many dramatic new developments and has become one of the largest independent branches of physics. It has simultaneously expanded into many new areas playing a vital role in fields that were once the domain of the engineering and chemical sciences. A consequence of this explosive development is that no single university lecturer can today be expected to have a detailed knowledge of all aspects of this vast subject; likewise it is impossible to conceive of a course that could offer students a comprehensive understanding of the entire discipline and its many applications. In view of this situation it is particularly valuable to have a textbook that gives a concise account of the essential elements of the physics of solids. In this book the fundamental aspects of solid state physics are presented according to the scheme: Chemical bonding, structure, lattice dynamics and electronic properties. We believe that this sequence is the optimum choice for tutorial purposes. It enables the more difficult concepts to be introduced at a point where a basic understanding of fundamental ideas has already been achieved through the study of simple models and examples. In addition to this carefully structured exposition of classical solid state theory based on the periodic solid and the one electron approximation, the book also includes comprehensive descriptions of the most active areas in modern research: Magnetism, superconductivity and semiconductor physics. **Solid State Theory** Walter A. Harrison, 2012-04-30

DIV Thorough modern study of solid state physics: solid types and symmetry, electron states, electronic properties and cooperative phenomena. **Solid State Theory** Ulrich Rössler, 2009-08-29 Solid State Theory: An Introduction is a textbook for graduate students of physics and material sciences. Whilst covering the traditional topics of older textbooks it also takes up new developments in theoretical concepts and materials that are connected with such breakthroughs as the quantum Hall effects, the high  $T_c$  superconductors and the low dimensional systems realized in solids. Thus besides providing the fundamental concepts to describe the physics of the electrons and ions comprising the solid including their interactions, the book casts a bridge to the experimental facts and gives the reader an excellent insight into current research fields. A compilation of problems makes the book especially valuable to both students and teachers. **Solid State Theory, Volume 1** Gerd Czycholl, 2023-01-04

The textbooks Solid State Theory give an introduction to the methods, contents and results of modern solid state physics in two volumes. This first volume has the basic courses in theoretical physics as prerequisites; i.e. knowledge of classical mechanics, electrodynamics and in particular quantum mechanics and statistical physics is assumed. The formalism of second quantization, occupation number representation, which is needed for the treatment of many body effects, is introduced and used in the book. The content of the first volume deals with the classical areas of solid state physics: phonons and electrons in the periodic potential, Bloch theorem, Hartree-Fock approximation, density functional theory, electron-phonon interaction. The first volume is already suitable for Bachelor students who want to go beyond the basic courses in theoretical physics and get already familiar with an application area of theoretical physics, e.g. for an elective subject Theoretical Solid State Physics or as a basis for a Bachelor thesis. Every solid state physicist working experimentally should

also be familiar with the theoretical methods covered in the first volume The content of the first volume can therefore also be the basis for a module Solid State Physics in the Master program in Physics or together with the content of the 2nd volume for a module Theoretical Solid State Physics or Advanced Theoretical Physics The following second volume covers application areas such as superconductivity and magnetism to areas that are current research topics e g quantum Hall effect high temperature superconductivity low dimensional structures **Solid State Theory** Walter Ashley Harrison,1974 *Solid State Theory* Ulrich Rossler,2009-08-30 *Introduction to the Theory of Solid State Physics* James D. Patterson,1967

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in theoretical solid state physics and thus ties in directly with the fundamentals Solids in external fields or more generally in non equilibrium and deviations from the ideal 3 dimensional crystal structure surfaces impurities low dimensional structures quantum dots etc are treated The consideration of collective phenomena such as superconductivity and magnetism complete the presentation The reader is assumed to have the contents of Volume 1 electrons and phonons in ideal crystals Bloch theorem population number representation or 2nd quantization electron electron and electron phonon interaction as well as the basic knowledge of general theoretical physics mechanics electrodynamics quantum mechanics and statistical physics usually available after a bachelor s degree in physics Volume 2 is thus ideally suited for students in the master s program in physics who wish to specialize in experimental or theoretical solid state physics Addressing current topics e g Kondo effect fractional quantum Hall effect 2 dimensional crystals such as graphene giant magnetoresistance effect and others provides an optimal transition to modern research The new edition has been completely revised expanded with numerous exercises and existing redesigned with the associated solutions now included in the book     **Solid State Theory** Gerd Czycholl,2023

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