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This book provides a practical approach to consolidate one's acquired knowledge or to learn new concepts in solid state physics through solving problems. It contains 300 problems on various subjects of solid state physics. The problems in this book can be used as homework assignments in an introductory or advanced course on solid state physics for undergraduate or graduate students.It can also serve as a desirable reference book to solve typical problems and grasp mathematical techniques in solid state physics. In practice, it is more fascinating and rewarding to learn a new idea or technique through solving challenging problems rather than through reading only. In this aspect, this book is not a plain collection of problems but it presents a large number of problem-solving ideas and procedures, some of which are valuable to practitioners in condensed matter physics.

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The correlation between the microscopic composition of solids and their macroscopic (electrical, optical, thermal) properties is the goal of solid state physics. This book is the deeply revised version of the French book Initiationa physique du solide: exercices commentes avec rappels de cours, written more than 20 years ago. It has five sections

The goal of solid state physics is to find the correlation between the microscopic composition of solids and their macroscopic (electrical, optical, thermal) properties. There are many good books that provide clear explanations and have made solid state physics look easier. However, clear explanations do not necessarily involve complete understanding, and the best test for the reader is to try an alternative point of view: solve exercises or problems. The aim of this textbook is to teach solid state physics by challenging the readers through exercises and their worked solutions. The magnitude of the numerical applications will provide learners the opportunity to make useful errors and to learn by drawing figures and graphs. Simple questions that are free of mathematical considerations are given at the end of each chapter to be solved by common sense and will permit another view of the subject.

The Purpose Of This Book Is To Motivate The Students To Organize Their Thoughts And Prepare Them For Problem Solving In The Vital Areas Of Modern Physics And Physics Of Condensed Materials. Each Chapter Begins With A Quick Review Of The Basic Concepts Of The Topics And Also, A Brief Discussion Of The Equation And Formulae That Are To Be Used For Solving The Problems. Examples And Illustrations Are Provided Then And There To Expedite The Learning Process And The Working Knowledge. About Six Hundred Problems Have Been Treated In Total; Two Hundred Problems Have Been Worked Out Providing All Minute Details. Answers For The Other Four Hundred Problems Have Been Provided At The End Of The Book. This Book Will Cater The Needs Of Undergraduate And Postgraduate Students Of Physics, Chemistry, Materials Science And All Branches Of Engineering Except Civil Engineering. Candidates Appearing For The Gate And Other Competitive Examinations Would Find This Book Useful.

This is an introductory book on solid state physics. It is a translation of a Hebrew version, written for the Open University in Israel. Aimed mainly for self-study, the book contains appendices with the necessary background, explains each calculation in detail and contains many solved problems. The bulk of the book discusses the basic concepts of periodic crystals, including lattice structures, radiation scattering off crystals, crystal bonding, vibrations of crystals, and electronic properties. On the other hand, the book also presents brief reviews of advanced topics, e.g. quasicrystals, soft condensed matter, mesoscopic physics and the quantum Hall effect. There are also many specific examples drawn from modern research topics, e.g. perovskite oxides relevant for high temperature superconductivity, graphene, electrons in low dimensions and more.

While the standard solid state topics are covered, the basic ones often have more detailed derivations than is customary (with an empasis on crystalline solids). Several recent topics are introduced, as are some subjects normally included only in condensed matter physics. Lattice vibrations, electrons, interactions, and spin effects (mostly in magnetism) are discussed the most comprehensively. Many problems are included whose level is from "fill in the steps" to long and challenging, and the text is equipped with references and several comments about experiments with figures and tables.