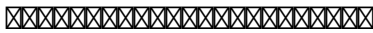



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this book provides a practical approach to consolidate one's acquired knowledge or to learn new concepts in solid state physics through solving problems it contains 300 problems on various subjects of solid state physics the problems in this book can 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

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

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 initiation physique du solide exercices commentes avec rappels de cours written more than 20 years ago it has five sections

this status report features the most recent developments in the field spanning a wide range of topical areas in the computer simulation of condensed matter materials physics highlights of this volume include various aspects of non equilibrium statistical mechanics studies of properties of real materials using both classical model simulations and electronic structure calculations and the use of computer simulation in teaching

a simple algorithm for solving either of two different bottleneck assignment problems is described in this paper the one problem requires finding an assignment of men to machines in a serial production line to maximize the rate of flow through the line the other requires finding an assignment for parallel production lines one man per line so as to minimize the time to do a given job the two problems are essentially identical author

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