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solid state physics is the study of rigid matter or solids through methods such as solid state chemistry quantum mechanics crystallography electromagnetism and metallurgy it is the largest branch of condensed matter physics solid state physics crystal structures band theory theory of metals and heat capacity magnetism superconductivity physics of the solid state is a peer reviewed journal that publishes research on all aspects of condensed matter physics it covers topics such as optics acoustics spectra phase transitions ferroelectricity magnetism and superconductivity an introduction to solid state physics covering band structure fermi surfaces phonons and particles in magnetic fields the web page contains pdf files of the lecture notes problem sheets and links to other resources a script based on lecture notes for a master course on solid state physics at the university of wuppertal it covers the basic concepts models and methods of quantum mechanics and statistical mechanics applied to condensed matter systems a textbook for graduate students on solid state physics covering theory experiments and recent developments learn about crystal structures band theory semiconductors magnetism superconductivity and more a textbook that covers all areas of solid state physics from crystal binding and structure to current topics in condensed matter physics it features problems and solutions biographical snapshots of researchers and folk theorems to illustrate the essence of the physics most of solid materials possess crystalline structure that means spatial periodicity or translation symmetry all the lattice can be obtained by repetition of a building block called basis we assume that there are 3 non coplanar vectors a_1 a_2 and a_3 that leave all the solid state physics is a textbook for students of physics material science chemistry and engineering it is the state of the art presentation of the theoretical foundations and application of the quantum structure of matter and materials learn about solid state physics the branch of physics that studies the properties of solids such as superconductivity ferromagnetism and photoconductivity find out the history background crystal structure and electronic properties of solids and explore some modern research topics and faqs solid state physics new york ny holt rinehart and winston 1976 isbn 9780030839931 exams there will be three in class exams and a final exam all exams are open book and open note exams homework there will be 10 problem sets assigned roughly once a week grading topics periodic structure and symmetry of crystals introduction to solid state physics known colloquially as kittel is a classic condensed matter physics textbook written by american physicist charles

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