



SOLID STATE PHYSICS



Prof. Omar Chmaissem

Note: This lecture is a condensed version extracted from several full-semester lectures posted by Prof. Beşire Gönül , Turkey. <http://www1.gantep.edu.tr/~bgonul/dersnotlari/ss/>

Solid State Physics Under Prebure

Daniel Webster Hering



Solid State Physics Under Pressure:

Solid State Physics Under Pressure, Abstract □□□□□□□□, 1984 **Electronic Transitions and the High Pressure Chemistry and Physics of Solids** H.G. Drickamer, C.W. Frank, 2013-03-13 There is no paucity of books on high pressure. Beginning with P. W. Bridgman's *The Physics of High Pressure*, books of general interest include the two volume *Physics and Chemistry of High Pressure* edited by R. S. Bradley and the series *Advances in High Pressure Research* as well as the report on the Lake George Conference in 1960. Solid state physics is well represented by *Solids Under Pressure* edited by Paul and Warschauer, *Physics of Solids at High Pressure* edited by Tomizuka and Emrick and by *Propriétés Physiques des Solides sous Pression* edited by Bloch as well as by chapters in Volumes 6, 13, 17 and 19 of *Solid State Physics* edited by Seitz, Turnbull and Ehrenreich. Chemistry in gases and liquids is covered in Weale's *Chemical Reactions at High Pressure* and Hamann's *Physico-chemical Effects of Pressure*. In addition to the coverage of techniques and calibrations in the above volumes, *Modern Very High Pressure Techniques* edited by Wentorf, *High Pressure Methods in Solid State Research* by C. C. Bradley, *The Accurate Characterization of the High Pressure Environment* edited by E. C. Lloyd and a chapter in Volume 11 of *Solid State Physics* are devoted entirely to this facet of high pressure research. It is not our plan either to supersede or extend these approaches. It is our purpose here to discuss the effect of high pressure on the electronic properties of solids. *High Pressure Materials Properties: Magnetic Properties of Oxides Under Pressure* Yoshiyuki Kawazoe, Takeshi Kanomata, Ryunosuke Note, 2023-08-14 The subject of this supplement to Landolt-Börnstein IV/22 Series is to present both the numerical and graphical data on the various magnetic properties of materials under pressure. Data for transition metal binary oxides M_mO_n (M transition metals, O oxygen, m, n = 1, 1.5, MXO, M transition metals, X = F, Cl, Br, O oxygen) and MM_mO_n (M transition metals, M transition metals or non-transition metal elements, O oxygen, n = 2, 2.5, 3) ternary oxides are presented. As well known, the data compiling principle in the Landolt-Börnstein series is to choose the best reliable values from many available experimental data. The present compilation is done according to this principle. *Phase Transformations of Elements Under High Pressure* E. Yu. Tonkov, E.G. Ponyatovsky, 2018-10-08 As laboratories replace heavy hydraulic presses and bulky high pressure chambers with miniature diamond anvils, traditional heaters with laser heating and continue to improve methods of shock compression, there has been considerable new data obtained from the high pressure, high temperature modification of pure elements. The dense metallic modification of elements shows the potential for achieving superconductivity akin to theoretical predictions. *Phase Transformations of Elements Under High Pressure* contains the latest theoretical and experimental information on nearly 100 elements, including first and second phase transitions, melting lines, crystal structures of stable and metastable phases, stability of polymorphic modifications and other useful properties and data. It emphasizes features such as changes in the liquid state, amorphization and metallization and provides temperature-pressure diagrams for every element. The book also describes the transitions of polymeric forms of fullerene, crystal modifications of elements, stable

under high pressures and provides data that confirms their superconducting and magnetic properties This handbook will be a lasting reference for scientists in a broad range of disciplines including solid state physics chemistry crystallography mineralogy and materials science

Theoretical Studies of Electronic, Vibrational, and Structural Properties of Solids Under Pressure Steven Paul Lewis,1993 This dissertation describes first principles quantum mechanical investigations of several realistic solid state systems The main goal of this research has been to understand and predict the electronic vibrational and structural properties of materials under pressure Microscopic information on these properties is obtained within local density functional theory using ab initio pseudopotentials This work focuses on three categories of materials 1 Part I deals with the high pressure behavior of elemental systems from group IV of the Periodic Table The pressure dependences of Raman active phonon modes of high pressure metallic phases of silicon germanium and tin are studied within the frozen phonon approximation In addition the structural properties of a recently discovered orthorhombic phase of silicon are calculated The aim of these two investigations is to understand and explain recent experimental results A third investigation predicts the existence of an orthorhombic high pressure phase of germanium 2 Part II focuses on group V of the Periodic Table The electronic and vibrational properties of elemental arsenic are studied with the aim of understanding the measured pressure dependences of the superconducting transition temperature and the normal state resistance In addition several candidate atomic phases of solid nitrogen are studied to determine their structural stability and electronic properties 3 Finally Part III considers the effect of varying the stoichiometry in compound systems In particular model calculations are performed to explore the Ga As system with the goal of motivating experimental studies The electronic properties of several model Ga As systems with varying stoichiometry are studied

Compounds and Alloys Under High Pressure E. Yu Tonkov,1998-10-23 This is the first book to classify and systematize the available data on the behavior of binary alloys under high pressure Despite the fact that there is a strong correlation between temperature composition T C phase diagrams at normal pressure and three dimensional temperature composition pressure T C P diagrams many material scientists seldom refer to the T C P diagrams just as many high pressure researchers often ignore the data obtained at normal pressure This book aims to bridge the gap between data obtained at high pressure and that obtained at normal pressure The most recent research covers not only elements and stoichiometric compounds but also binary ternary and multicomponent alloys and so this book covers an extended range of substances The properties of 890 binary systems and a further 1153 pseudobinary and ternary systems are summarized and accompanied by an extensive bibliography The data includes information on the solubility of components in solid solutions melting and first and second order phase transformations in alloys and stoichiometric compounds

Solids Under Pressure William Paul,1970 *High Pressure Phase Transformations* Evgenii I U r'evich Tonkov,1992

High Pressure Methods in Solid State Research ,1969 *A New Device for Research in Solid State Physics Under High Pressure and Low Temperature* Nobuo Mōri,Hiroki Takahashi,1990 *Physics Briefs* ,1993

Solid State Physics Under Pressure Shigeru Minomura,1985-01-01 Physics of the Ether S. Tolver Preston,1875

High Pressure Research on Solids Masafumi Senoo,1995 An overview of recent developments in the field of solid materials at high pressure taking place in Japan This volume contains 15 papers dealing with topics such as spectroscopy electronics synthesis and reaction of solids and high pressure processing *A Manual of physics* James Arnold

Crowther,1919 **Synchrotron Radiation Applications in Mineralogy and Petrology** S. S. Augustithis,1988

Essentials of Physics for College Students Daniel Webster Hering,1912 **Science Abstracts** ,1912

Computational Study of Materials Under Pressure Deepa Kasinathan,2006 Pressure possesses perhaps the greatest of all the physical variables First principles electronic structure calculations have contributed significantly to high pressure studies especially of solids In this work the results of the first principles analysis of CoN MnO and Li under pressure are presented From total energy calculations we can establish that CoN takes a paramagnetic zincblende structure at ambient pressure rather than rocksalt as sometimes suggested We also predict a first order phase transition to a ferromagnetic state at 43 GPa a weak ferromagnet not far from a ferromagnetic quantum critical point MnO a classic prototype for a Mott insulator exhibits rich physics as a function of pressure including structural phase transition volume collapse insulator metal transition etc This system has been a long standing challenge to methods based on density functional theory Our study provides some of the first detailed information on how magnetic moments in a real material may begin to disintegrate without vanishing identically at or near a Mott transition when correlation is taken into account Li the simplest metal becomes a superconductor under pressure with the highest T_c observed in any elemental metal Using both total energy and linear response calculations we observe increasingly strong electron phonon coupling concentrated along intersections of Kohn anomaly surfaces with the evolving Fermi surface that drives this simple metal to become a superconductor under pressure

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