Elements, Oxides, Silicates: High-Pressure Phases with Implications for the Earth's Interior by Lin-gun Liu and William A. Bassett. The Clarendon Press, Oxford University Press, New York, 1986. 250 pp., $55.00 (ISBN 0-19-503681-6)

AS THE TITLE of the book indicates, the authors have compiled a large amount of very useful data on high-pressure properties of elements, oxides, and silicates. While the authors aimed to provide data on studying the Earth's interior, the properties of material described in the book are not only useful to geophysicists but also to chemists, physicists, metallurgists, and ceramicists. The book consists of five chapters; the first is an introduction and the last an effort of the authors to demonstrate the application of the data in studying the Earth. Sandwiched in-between are three chapters with review and discussion of the available data on the properties of the high-pressure and high-temperature material.

Chapter 1 introduces a variety of subjects, including thermodynamics, crystal-chemistry, and experimental techniques. In 23 pages the authors summarize important information relevant to the determination and discussion of the data that are to follow in the next three chapters. The chapter is, however, too brief, particularly the section on experimental techniques.

Chapter 2 describes the properties of elements. In this and the other chapters, pressure-temperature phase diagrams have been drawn with no indication of the errors in experimental data. If all the experimental data were shown, the usefulness of the book would have been greatly enhanced to researchers interested in modeling the P-V-T relations of the solids and melts. However, since all references to the original data are given in the text, the book is still useful in research, albeit some additional effort is required. The treatment of the data on elements is essentially complete with numerous references to the original experiments.

The third chapter, running for 102 pages, is concerned with the oxides. As for the elements in the second chapter, the oxides are arranged according to their structural forms and complexity of composition. The fourth chapter of the book deals with silicates in the same style. The material covered in these two chapters is quite exhaustive and should be a very important source for designing new experiments or in attempting theoretical modeling of thermodynamic relations for solids or for geophysical-geochemical applications. Chapter 4 also contains an excellent review of the authors' own work on silicates, but here (as in other chapters) the original experimental data are not listed in tables or plotted on figures.

While the formula-index is good, I could not find "[illegible]" in the subject-index! (Which is curious because one of the authors is credited with the discovery of this phase.)

In spite of the minor reservations I have about the book, it should be clearly stated that the book is a very useful reference for my work. There is no other book available which treats the phase equilibrium data at high-pressure and high-temperature so thoroughly and exhaustively. All the important information available up to 1985 may be found here. Although there has been quite a rapid progress in the science of mineral-physics during the last several years, with this book a researcher will have to look back at references for only about two years to update his/her library files.

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S. K. Saxena

Complexation Reactions in Aquatic Systems—an Analytical Approach by Jacques Buffle. Translated from the French by S. P. Kounaves, A. Kounaves, and R. S. Altmann. Ellis Horwood, Chichester. Distributed by J. Wiley & Sons, 1988. 692 pp., $145.00 (ISBN 0-470-21030-9).

THE UNCERTAINTY IN appraising the speciation of aqueous solutions often impedes the quantitative evaluation of aqueous systems. This refractory problem is explored in this book through a critical discussion of present methods of resolving aqueous speciation, both theoretically and experimentally. It uniquely considers the distribution of solute components not only among simple inorganic and organic species but also on particulate surfaces and in organisms and macromolecules.

The first half of the book examines the kinetic and equilibrium factors that determine the time-dependent distribution of species, particularly in complexes. The factors include particle sizes, compositions of fresh, marine and interstitial sediment waters, sedimentary mineral stabilities, complexation constants, cations, residence times, and character of natural organic solutes, for examples. Tables of the values of these factors in various environments are given, together with useful equations correlating their variabilities with geologic environment, and detailed examples are presented from natural systems to illustrate the influences of the factors on speciation.

The second half of the book describes experimental methods that are sensitive to speciation, including voltammetry, spectroscopy, fluorescence, NMR, ESR, ion exchange, adsorption, and solubility.

This volume is well printed, bound, edited, and indexed. It also has at the front a useful table of notation, necessary for the many abbreviations adopted.

Those geochemists interested in resolving the true speciation of surface waters will find this book sets a new standard for its comprehensive, balanced treatment of the distribution of aqueous components among all pertinent states. Although broad, it has a high density of information. The level of sophistication is suitable for the advanced graduate student or the research professional to whom it is strongly recommended, provided that he has sufficient funds available to cover the outrageous price.

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H. L. Barnes

Elements Oxides And Silicates High Pressure Phases With Implications For The Earths Interior

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Elements Oxides And Silicates High Pressure Phases With Implications For The Earths Interior:

Elements, Oxides, and Silicates Lin-gun Liu,William A. Bassett,1986 The vast experimental data on phase relationships in elements oxides and silicates at high temperatures and pressures is collected in this volume together with an explanation of the basic principles governing these processes **Elements, Oxides, and Silicates** Lin-gun Liu,William A. Bassett,1986 The vast experimental data on phase relationships in elements oxides and silicates at high temperatures and pressures is collected in this volume together with an explanation of the basic principles governing these processes High Pressure Geochemistry & Mineral Physics S. Mitra,2004-12-11 Significant achievements have been made at the cross roads of physics and planetary science In the second half of the twentieth century the discipline of planetary sciences has witnessed three major episodes which have revolutionized its approach and content i the plate tectonic theory ii human landing and discoveries in planetary astronomy and iii the extraordinary technical advancement in high P T studies which have been abetted by a vast improvement in computational methods Using these new computational methods such as first principles including ab initio models calculations have been made for the electronic structure bonding thermal EOS elasticity melting thermal conductivity and diffusivity In this monograph the boundaries of the definitions of a petrologist geochemist geophysicist or a mineralogist have been willfully eliminated to bring them all under the spectrum of high pressure geochemistry when they deal with any material quintessentially a chemical assemblage terrestrial or extraterrestrial under the conditions of high pressure and temperature Thus a petrologist using a spectrometer or any instrument for high pressure studies of a rock or a mineral or a geochemist using them for chemical synthesis and characterization is better categorized as a high pressure geochemist rather than any other kind of disciplinarian The contents of this monograph bring together under one cover apparently disparate disciplines like solid earth geophysics and geochemistry as well as material science and condensed matter physics to present a thorough overview of high pressure geochemistry Indeed such interdisciplinary activities led to the discovery of new phenomena such as high P T behaviour in metal oxides e g Mott transition novel transitions such as amorphization changes in order disorder in crystals and the anomalous properties of oxide melts

Phase Diagrams of the Elements David A. Young,2023-12-22 The behavior of solid and liquid matter at high pressures and temperatures is best described in a phase diagram which shows the regions of stability of different phases of the material Thanks to the diamond anvil cell which has made possible much higher pressures and to new and very accurate theoretical models and methods Phase Diagrams of the Elements presents the most up to date information on the phase behavior of all the chemical elements from hydrogen to fermium The book summarizes with the aid of tables and illustrations the experimental data and the theoretical calculations Each element is discussed in a separate section Other chapters deal with methods the liquid vapor transition and an overview of the elements While comprehensively reviewing all that has been done in this important area the author also points to questions that need much more experimental and theoretical work The

behavior of solid and liquid matter at high pressures and temperatures is best described in a phase diagram which shows the regions of stability of different phases of the material Thanks to the diamond anvil cell which has made possible much highe

High Pressure Phenomena R.J. Hemley,G.L. Chiarotti,M. Bernasconi,2002-11-29 In many respects the science of materials has only fully utilized two of its three fundamental tools the variables of temperature and chemical composition Pressure the third fundamental variable altering materials is in many ways the most remarkable as it spans some 60 orders of magnitude in the universe High pressure science has experienced tremendous growth particularly in the last few years With recent developments in static and dynamic compression techniques extreme pressure and temperature conditions can now be produced and carefully controlled over a wide range Moreover a new generation of analytical probes many based on third generation synchrotron radiation sources have been developed and can now be applied for accurate determination of the structural dynamical and electronic properties of matter under extreme conditions Finally developments in computational techniques and advances in fundamental theory tested against bountiful new experimental results are both deepening our understanding of materials as a whole and guiding subsequent experimental work with new predictions It was for this reason that this course on high pressure science was held at the International School of Physics Enrico Fermi School in July 2001 Though presented in a physics forum the title High Pressure Phenomena was chosen to reflect the broad scope of the field and the diversity of recent findings Indeed the field spans fundamental physics and chemistry materials science and technology the geosciences planetary science and astrophysics as well as biology The highly interdisciplinary character of the field was central to the organization of the school though the sheer breadth of the field meant that many topics could be treated in only a cursory fashion while others were examined more in depth The aim of the school was to present the state of the art in techniques used in modern high pressure research highlighting those topics where applications of these techniques are currently having a major impact **Intermetallic Chemistry** Riccardo Ferro,Adriana Saccone,2011-08-26 Intermetallic science is closely related to physics chemistry metallurgy materials science technology and engineering This book emphasizes the chemical aspects of this science and therefore the mutual reactivity of metals and the characteristics of intermetallic compounds Topics included are Phase diagrams of alloy systems Many intermetallic systems form several compounds generally not obeying common simple stoichiometric rules which are often homogeneous in a certain range of compositions The stability and extension of these phases are conveniently presented through phase diagrams Selected aspects of intermetallics structural chemistry with emphasis on the solid state The general structural characteristics of intermetallic phases are considered with attention to nomenclature and to alternative and complementary methods of presenting crystal chemical data A brief account is given of derivative and degenerate structures modular aspects of crystal structures and of a few special groups of alloys such as quasicrystals and amorphous alloys A number of selected structural prototypes with typical features their possible grouping in structural families and their distribution among different types of

alloys are provided Intermetallic reactivity trends in the Periodic Table Attention is given to a few selected elemental parameters such as electron configuration and valence electron number and to their changes along the Table which act as reference factors of the intermetallic behaviour As an example the relationships are considered between crystal structure and the number of valence electrons per atom or per formula in various classes of compounds or solid solution phases Alloying behaviour systematics of intermetallic systems with a description of the intermetallic reactivity of each element or group of elements in the order of their position in the Periodic Table For each pair of metallic elements their capability to form intermediate phases is summarised by maps and schemes A description of small scale preparation methods of intermetallics A number of interesting and significant peculiarities are e g those related to their high melting points insolubility in common solvents etc Systematic treatment of alloying behaviour Wide overview of intermetallic chemistry Illustrated with many examples **High-Pressure Crystallography** Andrzej Katrusiak,Paul McMillan,2004-03-31 Despite the tremendous advances in the techniques and equipment for carrying out high pressure crystallography the application or exploration of the high pressure variable in detailed structural studies remains rare The chapters in this book provide a set of lecture notes and supplementary material for a course on high pressure crystallography The material comprises state of the art reviews of high pressure experiments using X ray and neutron diffraction techniques at synchrotron and neutron facilities and in the laboratory as well as complementary experimental high pressure techniques and theoretical methods for investigating matter at elevated pressures The materials studies range from elemental solids and liquids to inorganic compounds minerals organic compounds clathrates and pharmaceutical compounds to large biological molecules such as proteins and viruses The book provides a reference for workers in high pressure science wishing to learn more about crystallography and for established crystallographers potentially interested in high pressure as a variable as well as an introductory guide to new researchers in the field Treatise on Geophysics ,2015-04-17 Treatise on Geophysics Second Edition is a comprehensive and in depth study of the physics of the Earth beyond what any geophysics text has provided previously Thoroughly revised and updated it provides fundamental and state of the art discussion of all aspects of geophysics A highlight of the second edition is a new volume on Near Surface Geophysics that discusses the role of geophysics in the exploitation and conservation of natural resources and the assessment of degradation of natural systems by pollution Additional features include new material in the Planets and Moon Mantle Dynamics Core Dynamics Crustal and Lithosphere Dynamics Evolution of the Earth and Geodesy volumes New material is also presented on the uses of Earth gravity measurements This title is essential for professionals researchers professors and advanced undergraduate and graduate students in the fields of Geophysics and Earth system science Comprehensive and detailed coverage of all aspects of geophysics Fundamental and state of the art discussions of all research topics Integration of topics into a coherent whole

New Developments in High-Pressure Mineral Physics and Applications to the Earth's Interior D.C.

Rubie,Thomas S. Duffy,E. Ohtani,2004 Geophysical measurements such as the lateral variations in seismic wave velocities that are imaged by seismic tomography provide the strongest constraints on the structure of the Earth s deep interior In order to interpret such measurements in terms of mineralogical compositional models of the Earth s interior data on the physical and chemical properties of minerals at high pressures and temperatures are essential Knowledge of thermodynamics phase equilibria crystal chemistry crystallography rheology diffusion and heat transport are required to characterize the structure and dynamics of the Earth s deep interior as well as the processes by which the Earth originally differentiated Many experimental studies have been made possible only by a range of technical developments in the quest to achieve high pressures and temperatures in the laboratory At the same time analytical methods including X ray diffraction a variety of spectroscopic techniques electron microscopy ultrasonic interferometry and methods for rheological investigations have been developed and greatly improved In recent years major progress has been made also in the field of computational mineralogy whereby ab initio simulations are used to investigate the structural and dynamical properties of condensed matter at an atomistic level This volume contains a broad range of contributions that typify and summarize recent progress in the areas of high pressure mineral physics as well as associated technical developments **Treatise on Geophysics, Volume 2** G David Price,2010-04-20 Treatise on Geophysics Mineral Physics Volume 2 provides a comprehensive review of the current state of understanding of mineral physics Each chapter demonstrates the significant progress that has been made in the understanding of the physics and chemistry of minerals and also highlights a number of issues which are still outstanding or that need further work to resolve current contradictions The book first reviews the current status of our understanding of the nature of the deep Earth These include the seismic properties of rocks and minerals problems of the lower mantle and the core mantle boundary and the state of knowledge on mantle chemistry and the nature and evolution of the core The discussions then turn to the theory underlying high pressure high temperature physics and the major experimental methods being developed to probe this parameter space The remaining chapters explain the specific techniques for measuring elastic and acoustic properties electronic and magnetic properties and rheological properties the nature and origin of anisotropy in the Earth the properties of melt and the magnetic and electrical properties of mantle phases Self contained volume starts with an overview of the subject then explores each topic with in depth detail Extensive reference lists and cross references with other volumes to facilitate further research Full color figures and tables support the text and aid in understanding Content suited for both the expert and non expert **The Future of Dynamic Structural Science** Judith A.K. Howard,Hazel A. Sparkes,Paul R. Raithby,Andrei V. Churakov,2014-07-08 This work focuses on complementary crystallographic and spectroscopic areas of dynamic structural science from papers presented at the 46th NATO sponsored course in Erice Sicily 2013 These papers cover a range of material from background concepts to more advanced material and represent a fully inter disciplinary collection of the latest ideas and results within the field They will appeal to practising or

novice crystallographers both chemical and biological who wish to learn more about modern spectroscopic methods and convergent advances and hence vice versa for experimental and computational spectroscopists The chapters refer to the latest techniques software and results and each chapter is fully referenced The volume provides an excellent starting point for new comers in the emerging multi disciplinary area of time resolved science *Ultrahigh Pressure Mineralogy* Russell J. Hemley,2018-12-17 Volume 37 of Reviews in Mineralogy divided into three sections begins with an overview Chapter 1 of the remarkable advances in the ability to subject minerals not only as pristine single crystal samples but also complex natural mineral assemblages to extreme pressure temperature conditions in the laboratory These advances parallel the development of an arsenal of analytical methods for measuring mineral behavior under those conditions This sets the stage for section two Chapters 2 8 which focuses on high pressure minerals in their geological setting as a function of depth This top down approach begins with what we know from direct sampling of high pressure minerals and rocks brought to the surface to detailed geophysical observations of the vast interior The third section Chapters 9 19 presents the material fundamentals starting from properties of a chemical nature such as crystal chemistry thermochemistry element partitioning and melting and moving toward the domain of mineral physics such as melt properties equations of state elasticity rheology vibrational dynamics bonding electronic structure and magnetism The Review thus moves from the complexity of rocks to their mineral components and finally to fundamental properties arising directly from the play of electrons and nuclei This volume was prepared for a short course by the same title organized by Russell J Hemley and Ho kwang Mao and sponsored by the Mineralogical Society of America December 4 6 1998 on the campus of the University of California at Davis

High-Pressure Physics John Loveday,2012-06-06 High pressure science has undergone a revolution in the last 15 years The development of intense new x ray and neutron sources improved detectors new instrumentation greatly increased computation power and advanced computational algorithms have enabled researchers to determine the behavior of matter at static pressures in excess of 400 GPa Shock wave techniques have allowed access to the experimental pressure temperature range beyond 1 TPa and 10 000 K High Pressure Physics introduces the current state of the art in this field Based on lectures presented by leading researchers at the 63rd Scottish Universities Summer School in Physics the book summarizes the latest experimental and theoretical techniques Highlighting applications in a range of physics disciplines from novel materials synthesis to planetary interiors this book cuts across many areas and supplies a solid grounding in high pressure physics Chapters cover a wide array of topics and techniques including High pressure devices The design of pressure cells Electrical transport experiments The fabrication process for customizing diamond anvils Equations of state EOS for solids in a range of pressures and temperatures Crystallography optical spectroscopy and inelastic x ray scattering IXS techniques Magnetism in solids The internal structure of Earth and other planets Measurement and control of temperature in high pressure experiments Solid state chemistry and materials research at high pressure Liquids and glasses The study of hydrogen at high

density A resource for graduate students and young researchers this accessible reference provides an overview of key research areas and applications in high pressure physics High-Pressure Crystallography Przemyslaw Dera,Elena Boldyreva,2010-06-22 This unique book is devoted to the theme of crystallographic studies at high pressure It places emphasis on the phenomena characteristic to the compressed state of matter as well as experimental and theoretical techniques used to study these phenomena **ENERGY MODELLING IN MINERALS** C.M. Gramaccioli,2002-01-01 Nothing provided **Origin of the Earth and Moon** Alfred E. Ringwood,2012-12-06 Since the beginning of civilization the origins of the Earth and Moon have been the subjects of continuing interest speculation and enquiry These are also among the most challenging of all scientific problems They are perhaps to a unique degree interdisciplinary having attracted the attention of philosophers astronomers mathematicians geologists chemists and physicists A large and diverse literature has developed far beyond the capacity of individuals to assimilate adequately Consequently most of those who attempt to present review syntheses in the area tend to reflect the perspectives of their own particular disciplines The present author s approach is that of a geochemist strongly influenced by the basic phil osophy of Harold Urey Whereas most astronomical phenomena are controlled by gravitational and magnetic fields and by nuclear interactions Urey 1952 emphasized that the formation of the solar system occurred in a pressure temperature regime wherein the chemical properties of matter were at least as important as those of gravitational and magnetic fields This was the principal theme of his 1952 book The Planets which revolutionized our approach to this subject In many subsequent papers Urey strongly emphasized the importance of meteorites in providing critical evidence of chemical conditions in the primordial solar nebula and of the chemical fractionation processes which occurred during formation of the terrestrial planets This approach has been followed by most subsequent geochemists and cosmochemists **High-pressure Research** Yasuhiko Syono,Murli H. Manghnani,1992

Tectonic Boundary Conditions for Climate Reconstructions Thomas J. Crowley,Kevin Burke,1998 In recent years efforts to integrate solid earth geophysical studies and climate studies have progressed slowly but this volume responds to the deficiency with an in depth examination of climate modeling Written by eminent figures from both disciplines it focuses on the role of tectonic boundary conditions for paleoclimate reconstruction at the same time it presents background material on the impact of tectonic changes on climate and the uncertainties in tectonic boundary conditions **Equations of State of Solids for Geophysics and Ceramic Science** Orson L. Anderson,1995 Written by a renowned expert in the field this book is the most comprehensive treatment available on the applications of equations of state EoS in geophysics and materials science a topic of fundamental importance to those studying the physics and chemistry of the Earth Part one offers comprehensive treatments of thermal properties associated with EoS thermodynamic and statistical mechanical backgrounds and thermoelastic properties Definitions of the physical properties needed for the EoS are provided as well Part two discusses the isothermal pressure volume relationship The ab initio approach EoS based upon quantum mechanics

fundamentals using numerical methods is utilized to clearly represent and analyze the measured data Part three offers an advanced treatment of thermal properties at high temperature and includes discussions of thermal pressure shocked solids and EoS applications to materials science topics such as melting and thermodynamic function Advanced students researchers and professionals in geophysics ceramics science solid state physics and geochemistry will want to read this book *Manual of Mineral Science* Cornelis Klein,Barbara Dutrow,2007-02-20 First published in 1848 authored by J D Dana the Manual of Mineral Science now enters its 23rd edition This new edition continues in the footsteps or its predecessors as the standard textbook in Mineralogy Mineral Science Earth Materials Rocks and Minerals courses This new edition contains 22 chapters instead of 14 as in the prior edition This is the result of having packaged coherent subject matter into smaller more easily accessible units Each chapter has a new and expanded introductory statement which gives the user a quick overview of what is to come Just before these introductions each chapter features a new illustration that highlights some aspect of the subject in that particular chapter All such changes make the text more readable user friendly and searchable Many of the first 14 chapters are reasonably independent of each other allowing for great flexibility in an instructor s preferred subject sequence The majority of illustrations in this edition were re rendered and or redesigned and many new photographs mainly of mineral specimens were added NEW Thoroughly Revised Lab Manual ISBN13 978 0 471 77277 4 Also published by John Wiley Sons the thoroughly updated Laboratory Manual Minerals and Rocks Exercises in Crystal and Mineral Chemistry Crystallography X ray Powder Diffraction Mineral and Rock Identification and Ore Mineralogy 3e is for use in the mineralogy laboratory and covers the subject matter in the same sequence as the Manual of Mineral Science 23e

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