

**Springer Series in Materials Science 21**

**Yuh Fukai**

# **The Metal-Hydrogen System**

**Basic Bulk Properties**



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# Metalhydrogen System Basic Bulk Properties

**David Baud**



## **Metalhydrogen System Basic Bulk Properties:**

**The Metal-Hydrogen System** Yuh Fukai, 2009-09-02 Metal hydrides are of inestimable importance for the future of hydrogen energy This unique monograph presents a clear and comprehensive description of the bulk properties of the metal hydrogen system The statistical thermodynamics is treated over a very wide range of pressure temperature and composition Another prominent feature of the book is its elucidation of the quantum mechanical behavior of interstitial hydrogen atoms including their states and motion The important topic of hydrogen interaction with lattice defects and its materials science implications are also discussed thoroughly This second edition has been substantially revised and updated *The Metal-Hydrogen System* Yuh Fukai, 2006-05-06 Metal hydrides are of inestimable importance for the future of hydrogen energy This unique monograph presents a clear and comprehensive description of the bulk properties of the metal hydrogen system The statistical thermodynamics is treated over a very wide range of pressure temperature and composition Another prominent feature of the book is its elucidation of the quantum mechanical behavior of interstitial hydrogen atoms including their states and motion The important topic of hydrogen interaction with lattice defects and its materials science implications are also discussed thoroughly This second edition has been substantially revised and updated **Compounds and Alloys**

**Under High Pressure** E.Yu Tonkov, 2022 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 **Carbon Nanomaterials in Clean Energy Hydrogen Systems**

Bogdan Baranowski, Svetlana Zaginaichenko, Dmitry Schur, Valeriy Skorokhod, Ayfer Veziroglu, 2008-10-20 The 2007 ARW Using Carbon Nanomaterials in Clean Energy Hydrogen Systems UCNCEHS 2007 was held in September 22-28 2007 in the remarkable town Sudak Crimea Ukraine known for its heroic and unusual fate In the tradition of the earlier conferences UCNCEHS 2007 meeting served as an multidisciplinary forum for the presentation and discussion of the most recent research on transition to hydrogen based energy systems technologies for hydrogen production storage utilization carbon nanomaterials processing and chemical behavior energy and environmental problems The aim of UCNCEHS 2007 was to provide the wide overview of the latest scientific results on basic research and technological applications of hydrogen

interactions with carbon materials The active representatives from research academic organizations and governmental agencies could meet discuss and present the most recent advances in hydrogen concepts processes and systems to evaluate current progress and to exchange academic information to identify research needs and future development in this important area This ARW should help further the progress of hydrogen based science and promote the role of hydrogen and carbon nanomaterials in the energy field

**Energy Carriers And Conversion Systems With Emphasis On Hydrogen - Volume II** Tokio Ohta,2009-07-22 Energy Carriers and Conversion Systems is a component of Encyclopedia of Energy Sciences Engineering and Technology Resources in the global Encyclopedia of Life Support Systems EOLSS which is an integrated compendium of twenty Encyclopedias The Theme on Energy Carriers and Conversion Systems with contributions from distinguished experts in the field discusses energy matters of great relevance to our world such as Historical Background Systematic Concept General Sketch and Key Technologies Water Splitting Science and Technology Hydrogen Storage and Transportation Fuels Cells and Other Applications These volumes are aimed at the following five major target audiences University and College students Educators Professional practitioners Research personnel and Policy analysts managers and decision makers and NGOs

Corrosion Engineering Branko N. Popov,2024-11-19 Corrosion Engineering Principles and Solved Problems Second Edition gives a comprehensive overview and introduction to the field through an extensive theoretical description of the principles of corrosion theory passivity and corrosion prevention strategies and design of corrosion protection systems The second edition has been thoroughly updated with new knowledge and includes solved corrosion case studies corrosion analysis and solved corrosion problems to help the reader to understand the corrosion fundamental principles from thermodynamics and electrochemical kinetics the mechanism that triggers the corrosion processes at the metal interface and how to control or inhibit the corrosion rates A key goal of the updated book is to help the next generation of engineers and scientists i understand the theory of hydrogen embrittlement and stress corrosion cracking as well as hydrogen damage prevention strategies ii design models for developing hydrogen damage resistant alloys and iii prevent damage of different industrial components due to the presence and localization of hydrogen in metals To accomplish these objectives the book offers case studies of hydrogen permeation hydrogen embrittlement mechanical properties of alloys and hydrogen damage control Addresses corrosion theory passivity material selections and designs Includes extensive coverage of corrosion engineering protection strategies Contains over 500 solved problems diagrams case studies and end of chapter exercises Suitable for advanced graduate corrosion courses and as a self study reference for corrosion engineers

**Hydrogen Effects in Materials** Anthony W. Thompson,Neville R. Moody,2013-09-27 Proceedings of the Fifth International Conference on the Effect of Hydrogen on the Behavior of Materials sponsored by the Structural Materials Division SMD Mechanical Metallurgy and Corrosion Environmental Effects Committees of The Minerals Metals Materials Society held at Jackson Lake Lodge Moran Wyoming September 11 14 1994

**Corrosion and Protection of**

**Materials** Marina Cabrini,2021-04-06 This book contains thirty articles on various topics related to the corrosion and protection of metallic materials This topic is of strong actuality both due to the aging of plants and infrastructures that require checks and maintenance and to the use of traditional materials in increasingly aggressive environments added to the need of changing the current anti corrosion systems with less environmental impact methods Finally the new development of innovative materials such as additive manufacturing or high entropy alloys needs the characterization of their corrosion behavior In this issue there are works on new alloys obtained for additive manufacturing or high entropy on the study of corrosion and stress corrosion cracking and hydrogen embrittlement mechanisms through electrochemical and microscopical techniques studies on low environmental impact inhibitors and biocides as well as ceramic and metal protective coatings Finally there are works on the study of the residual mechanical resistance of corroded infrastructures and on monitoring and non destructive control In this way the book therefore offers a somewhat varied panorama of research trends in the field

Solid-State Hydrogen Storage Gavin Walker,2008-09-30 Hydrogen fuel cells are emerging as a major alternative energy source in transportation and other applications Central to the development of the hydrogen economy is safe efficient and viable storage of hydrogen Solid state hydrogen storage Materials and chemistry reviews the latest developments in solid state hydrogen storage Part one discusses hydrogen storage technologies hydrogen futures hydrogen containment materials and solid state hydrogen storage system design Part two reviews the analysis of hydrogen interactions including structural characterisation of hydride materials neutron scattering techniques reliably measuring hydrogen uptake in storage materials and modelling of carbon based materials for hydrogen storage Part three analyses physically bound hydrogen storage with chapters on zeolites carbon nanostructures and metal organic framework materials Part four examines chemically bound hydrogen storage including intermetallics magnesium hydride alanates borohydrides imides and amides multicomponent hydrogen storage systems organic liquid carriers indirect hydrogen storage in metal amines and technological challenges in hydrogen storage With its distinguished editor and international team of contributors Solid state hydrogen storage Materials and chemistry is a standard reference for researchers and professionals in the field of renewable energy hydrogen fuel cells and hydrogen storage Assesses hydrogen fuel cells as a major alternative energy source Discusses hydrogen storage technologies and solid state hydrogen storage system design Explores the analysis of hydrogen interactions including reliably measuring hydrogen uptake in storage materials

Hydrogen Energy for Beginners Alexander Gavriluk,2013-12-04 This book highlights the outstanding role of hydrogen in energy processes where it is the most functional element due to its unique peculiarities that are highlighted and emphasized in the book The first half of the book covers the great natural hydrogen processes in biology chemistry and physics showing that hydrogen is a trend that can unite

**Mechanical Engineers' Handbook, Volume 4** Myer Kutz,2015-02-06 The engineer s ready reference for mechanical power and heat Mechanical Engineer s Handbook provides the most comprehensive coverage of the entire

discipline with a focus on explanation and analysis. Packaged as a modular approach, these books are designed to be used either individually or as a set, providing engineers with a thorough, detailed, ready reference on topics that may fall outside their scope of expertise. Each book provides discussion and examples as opposed to straight data and calculations, giving readers the immediate background they need while pointing them toward more in-depth information as necessary. Volume 4, *Energy and Power*, covers the essentials of fluids, thermodynamics, entropy, and heat, with chapters dedicated to individual applications such as air heating, cryogenic engineering, indoor environmental control, and more. Readers will find detailed guidance toward fuel sources and their technologies as well as a general overview of the mechanics of combustion. No single engineer can be a specialist in all areas that they are called on to work in; the diverse industries and job functions they occupy. This book gives them a resource for finding the information they need, with a focus on topics related to the production, transmission, and use of mechanical power and heat. Understand the nature of energy and its proper measurement and analysis. Learn how the mechanics of energy apply to furnaces, refrigeration, thermal systems, and more. Examine the pros and cons of petroleum, coal, biofuel, solar, wind, and geothermal power. Review the mechanical parts that generate, transmit, and store different types of power and the applicable guidelines. Engineers must frequently refer to data tables, standards, and other list-type references, but this book is different; instead of just providing the answer, it explains why the answer is what it is. Engineers will appreciate this approach and come to find Volume 4, *Energy and Power*, an invaluable reference.

**Tritium: Fuel of Fusion Reactors** Tetsuo Tanabe, 2016-12-05 This book focuses on tritium as a fuel for fusion reactors and a next-generation energy source. Following an introduction of tritium as a hydrogen radioisotope, important issues involved in establishing safe and economical tritium fuel cycles, including breeding for a fusion reactor, are summarized. These include the handling of large amounts of tritium, confinement, leakage, contamination, permeation, regulation, and tritium accountancy and impacts on surrounding areas. Targeting and encouraging the students and technicians who will design and operate fusion reactors in the near future, this book offers a valuable resource on tritium science and technology.

*Physical Metallurgy* David E. Laughlin, Kazuhiro Hono, 2014-07-24 This fifth edition of the highly regarded family of titles that first published in 1965 is now a three-volume set and over 3 000 pages. All chapters have been revised and expanded, either by the fourth edition authors alone or jointly with new co-authors. Chapters have been added on the physical metallurgy of light alloys, the physical metallurgy of titanium alloys, atom probe field ion microscopy, computational metallurgy, and orientational imaging microscopy. The books incorporate the latest experimental research results and theoretical insights. Several thousand citations to the research and review literature are included. Exhaustively synthesizes the pertinent contemporary developments within physical metallurgy, so scientists have authoritative information at their fingertips. Replaces existing articles and monographs with a single, complete solution. Enables metallurgists to predict changes and create novel alloys and processes.

**Effects of Hydrogen on Materials** Brian Somerday, Petros Sofronis, Russell H. Jones, 2009-01-01 Research

and commercial activity in developing hydrogen as a fuel is driving increased attention on hydrogen materials interactions. In particular, a renewed and intensifying interest in developing hydrogen fuel cells has prompted extensive research with the objective to enable the safe design of components for transporting and storing hydrogen fuel. This volume is the proceedings from the premier conference on hydrogen effects in materials, bridging scientific research and engineering applications. The proceedings volume highlights several themes: the technological importance of hydrogen effects on structural materials; the impact of bridging science and engineering; and the opportunity to apply new research tools including simulation techniques as well as experimental methods.

**Hydrogen Storage Materials** Darren P. Broom, 2011-02-28 The problem of storing hydrogen safely and effectively is one of the major technological barriers currently preventing the widespread adoption of hydrogen as an energy carrier and the subsequent transition to a so-called hydrogen economy. Practical issues with the storage of hydrogen in both gas and liquid form appear to make reversible solid-state hydrogen storage the most promising potential solution. *Hydrogen Storage Materials* addresses the characterisation of the hydrogen storage properties of the materials that are currently being considered for this purpose. The background to the topic is introduced along with the various types of materials that are currently under investigation, including nanostructured interstitial and complex hydrides and porous materials such as metal-organic frameworks and microporous organic polymers. The main features of *Hydrogen Storage Materials* include an overview of the different types of hydrogen storage materials and the properties that are of interest for their practical use; descriptions of the gas sorption measurement methods used to determine these properties; and the complementary techniques that can be used to help corroborate hydrogen uptake data. Extensive coverage of the practical considerations for accurate hydrogen sorption measurement that drive both instrument design and the development of experimental methodology. *Hydrogen Storage Materials* provides an up-to-date overview of the topic for experienced researchers while including enough introductory material to serve as a useful practical introduction for newcomers to the field.

*Hydrogen Storage for Sustainability* Marcel Van de Voorde, 2021-09-07 Carbon-neutral hydrogen technologies play a role in preventing climate change, and the capacity to store and transport hydrogen will be critical in the growing hydrogen economy. This book focuses on new developments of hydrogen storage technologies and deals with an overview of the materials and science necessary for storing hydrogen, with great attention to the synthesis kinetics and thermodynamics of new advanced materials, e.g., porous carbon and nanomaterials. Ideal book for students of materials science, chemistry, physics, for researchers, chemical and mechanical engineers, for industrialists, policymakers, safety agencies, and governments.

*Encyclopedia of Electrochemical Power Sources* Jürgen Garche, Chris K. Dyer, Patrick T. Moseley, Zempachi Ogumi, David A. J. Rand, Bruno Scrosati, 2013-05-20 The *Encyclopedia of Electrochemical Power Sources* is a truly interdisciplinary reference for those working with batteries, fuel cells, electrolyzers, supercapacitors, and photo-electrochemical cells. With a focus on the environmental and economic impact of electrochemical power sources, this five-volume work consolidates

coverage of the field and serves as an entry point to the literature for professionals and students alike Covers the main types of power sources including their operating principles systems materials and applications Serves as a primary source of information for electrochemists materials scientists energy technologists and engineers Incorporates nearly 350 articles with timely coverage of such topics as environmental and sustainability considerations Handbook of Magnetic Materials K.H.J. Buschow, 2007-12-15 Volume 17 of the Handbook on the Properties of Magnetic Materials as the preceding volumes has a dual purpose As a textbook it is intended to be of assistance to those who wish to be introduced to a given topic in the field of magnetism without the need to read the vast amount of literature published As a work of reference it is intended for scientists active in magnetism research To this dual purpose Volume 17 of the Handbook is composed of topical review articles written by leading authorities In each of these articles an extensive description is given in graphical as well as in tabular form much emphasis being placed on the discussion of the experimental material in the framework of physics chemistry and material science It provides the readership with novel trends and achievements in magnetism composed of topical review articles written by leading authorities intended to be of assistance to those who wish to be introduced to a given topic in the field of magnetism as a work of reference it is intended for scientists active in magnetism research provide the readership with novel trends and achievements in magnetism Hydrogen Materials Science and Chemistry of Carbon Nanomaterials T. Nejat Veziroglu, Svetlana Yu. Zaginichenko, Dmitry V. Schur, B. Baranowski, Anatoliy P. Shpak, Valeriy V. Skorokhod, 2006-04-04 The 2003 International Conference Hydrogen Materials Science and Chemistry of Carbon Nanomaterials was held in September 2003 In the tradition of the earlier ICHMS conferences this meeting served as an interdisciplinary forum for the presentation and discussion of the most recent research on transition to hydrogen based energy systems technologies for hydrogen production storage utilization materials energy and environmental problems The aim of the volume is to provide an overview of the latest scientific results on research and development in the different topics cited above The representatives from industry public laboratories universities and governmental agencies have presented the most recent advances in hydrogen concepts processes and systems to evaluate current progress in these areas of investigations and to identify promising research directions for the future *Gaseous Hydrogen Embrittlement of Materials in Energy Technologies* Richard P Gangloff, Brian P Somerday, 2012-01-16 Many modern energy systems are reliant on the production transportation storage and use of gaseous hydrogen The safety durability performance and economic operation of these systems is challenged by operating cycle dependent degradation by hydrogen of otherwise high performance materials This important two volume work provides a comprehensive and authoritative overview of the latest research into managing hydrogen embrittlement in energy technologies Volume 1 is divided into three parts the first of which provides an overview of the hydrogen embrittlement problem in specific technologies including petrochemical refining automotive hydrogen tanks nuclear waste disposal and power systems and H<sub>2</sub> storage and distribution facilities Part two then examines modern methods



of characterization and analysis of hydrogen damage and part three focuses on the hydrogen degradation of various alloy classes. With its distinguished editors and international team of expert contributors, Volume 1 of Gaseous hydrogen embrittlement of materials in energy technologies is an invaluable reference tool for engineers, designers, materials scientists and solid mechanicians working with safety critical components fabricated from high performance materials required to operate in severe environments based on hydrogen. Impacted technologies include aerospace, petrochemical refining, gas transmission, power generation and transportation. Summarises the wealth of recent research on understanding and dealing with the safety, durability, performance and economic operation of using gaseous hydrogen at high pressure. Reviews how hydrogen embrittlement affects particular sectors such as the petrochemicals, automotive and nuclear industries. Discusses how hydrogen embrittlement can be characterised and its effects on particular alloy classes.

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