

Welcome

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Trans Tech Publications Ltd. strives to meet the high expectations of customers and partners via efficient service and high-quality products.

Anne-Kristin Wohlbier, CEO



Retrospective Collection



"Retrospective Collection" is a collection of books published from 1983 to 2004.

This collection represents content that keeps track of research covering the evolution of scientific interest, Trans Tech Publications created featured books cover on those topics of materials science and engineering, that at the time were characteristic for the scientific interest through the years. The Retrospective Collection presents a variety of research outcomes connected with the still modern view of the world scientific community. This collection is an add-on to the journal and Publications books Trans Tech other distributes.

The technical progress in all scientific ideas, which seemed impracticable at that time, are still applicable but now by using modern technologies, equipment and processes.

More information can be found following

https://www.scientific.net/insights/ retrospective-collection

www.scientific.net/RC

Nanomaterials Synthesis and Applications Ediet by Unique Private Priv

Nanomaterials Synthesis and Applications

Volume in the series: 45 Edited by: Umapada Pal

The presented book under the edition of Prof. Umapada Pal (Institute of Physics, Autonomous University of Puebla, Mexico) collected articles that reflected the last trend and achievements in the synthesis and application of various nanomaterials actualized in the research studies of Mexican scientists.

Topics: Materials Science

Keywords: Gold Nanoparticles, Semiconductors Sol-Gel Synthesis, TiO₂-In₂O₃ Semiconductors, TiO₁₂-Al₂O₃ Semiconductors

Prices: Print: US\$ 193.00/ EUR 193.00 Print: 978-0-87849-331-9 eBook Single-User: US\$ 193.00/ EUR 193.00 eBook: 978-3-0357-0742-7

eBook Multi-User: US\$ 338.00/ EUR 338.00 246 pages, 2009

https://www.scientific.net/978-0-87849-331-9/book



Cellular Metals and Polymers

Volume in the series: 44

Proceedings of the Symposium on Cellular Metals and Polymers, sponsored by the Deutsche Forschungsgemeinschaft (DFG), held October 12 - 14, 2004, in Fürth, Germany, including reports from DFG priority program Cellular Metals (SPP 1075)

Edited by: R.F. Singer, C. Körner, V. Altstädt and H. Münstedt

This collection constitutes an essential sourcebook for researchers, producers and users seeking technical information on materials with foam-like structures.

The collection is unique, in that it brings together people from the fields of metals and polymers. Both material types derive their advantageous properties from a cellular structure. These properties include: low weight, high specific stiffness and strength, excellent energy absorption capacity, as well as damping and insulation properties. On the other hand, the processing of metals is far more difficult due to the higher temperatures involved. Another important factor is the faster decay of metal foam structures, at the end of the foaming process, because of their combination of high surface tension and low viscosity. The differences in foamability, between metals and polymers, explain why cellular plastics have been widely used for some time whereas cellular metals have only recently found their first applications.

Topics: Materials Science

Keywords: Aluminum Foams, Energy Absorption Capacity, Foam-like Structures, Lattice Materials, Lotus-Type Porous

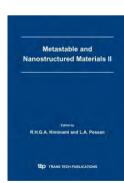
Materials, Metallic Foams, Powders Metallurgy

Prices: Print: **US\$ 259.00/ EUR 259.00** Print: 978-0-87849-491-0

eBook Single-User: **US\$ 198.00/ EUR 198.00** eBook: 978-3-0357-0584-3

eBook Multi-User: US\$ 347.00 / EUR 347.00 300 pages, 2005

https://www.scientific.net/978-0-87849-491-0/book



Metastable and Nanostructured Materials II

Volume in the series: 43

Proceedings of the 2nd Workshop on Metastable and Nanostructured Materials (II NANOMAT 2003), Iguacu Falls, PR, Brazil, August 28-29, 2003

Edited by: R.H.G.A. Kiminami and L.A. Pessan

The Second Workshop on Metastable and Nanostructured Materials was held in Iguaçu Falls, Paraná State, Brazil, from August 28th to 29th, 2003. Following the successful First Workshop organized in 2001, Il NANOMAT was organized in order to provide another Forum for discussions on Metastable and Nanostructured Materials. This main purpose of the Workshop was fully achieved, with the participation of researchers from countries both near and far: Argentina, Brazil, England, France, Japan, Mexico, Russia, Turkey and the USA

Topics: Materials Science

Keywords: Al-Fe-Si, Al-Si-Mg System, Aluminum Alloy, Ball Milling, Bulk Glassy Alloy, Carbon-13, Chalcogenide Glass, Clay,

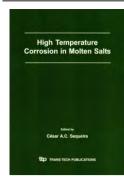
Nanocomposite, Transport Property

Prices: Print: **US\$ 116.00/ EUR 116.00** Print: 978-0-87849-954-0

eBook Single-User: **US\$ 160.00/ EUR 160.00** eBook: 978-3-0357-3991-6

eBook Multi-User: US\$ 280.00/ EUR 280.00 116 pages, 2004

https://www.scientific.net/978-0-87849-954-0/book



High Temperature Corrosion in Molten Salts

Volume in the series: 42

Edited by: César A. C. Sequeira

Numerous commercial processes operate at temperatures exceeding 500 degrees Celsius. The materials used in hightemperature structures have design constraints which are in addition to those on materials used at, or near to, room temperature. These important additional constraints include time-dependent inelastic strain (creep), thermal stability of the microstructure and high-temperature corrosion. The addition of these constraints to those of low cost, strength, toughness, machinability, formability, weldability, and combinations of these, has led to the intensive development, over the past 50 years, of an extensive group of metallic materials: generally referred to as "high-temperature alloys".

Topics: Materials Science

Keywords: Ceramic, Chromium, Coating, Corrosion, Deposit, Electrochemical Potential Noise, Electrochemistry, Galvanic

Corrosion, Heavy Metal Compounds, High Temperature Corrosion, Hot Corrosion, Molten Salt, Molten Salt Corrosion, Ni Alloys, Nickel Ni, Nitride, Stainless Steel (SS), Thin Film Hot Corrosion, Vanadium Pentoxide,

Waste Incineration

Prices: Print. US\$ 259.00/ EUR 259.00 Print: 978-0-87849-917-5

eBook Single-User: US\$ 198.00/EUR 198.00 eBook: 978-3-0357-0603-1

eBook Multi-User: US\$ 347.00/ EUR 347.00 364 pages, 2003

https://www.scientific.net/978-0-87849-917-5/book



Advances in Jurassic Research 2000

Volume in the series: 41

Proceedings of the Fifth International Symposium on the Jurassic System, held in Vancouver, Canada, August 12-25, 1998

Edited by: R.L. Hall and P.L. Smith

This book presents the proceedings of the 5th International Symposium on the Jurassic System. Special emphasis is given to Timescales and Correlation; Sequence Stratigraphy; Paleontology and Biogeography; and Terrestrial Ecosystems.

Topics: Materials Science

Keywords: Aalenian, Ammonites, Bajocian, Biostratigraphy, Chronostratigraphy, Correlation, Foraminifera, Hettangian,

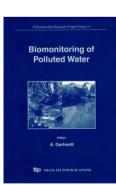
Kimmeridgian, Sequence Stratigraphy, Upper Jurassic

Prices: US\$ 215.00/ EUR 215.00 Print: 978-0-87849-844-4

> eBook Single-User: US\$ 198.00/EUR 198.00 eBook: 978-3-0357-3989-3

eBook Multi-User: US\$ 347.00/ EUR 347.00 576 pages, 1999

https://www.scientific.net/978-0-87849-844-4/book



Biomonitoring of Polluted Water

Volume in the series: 40

Edited by: A. Gerhardt

Biomonitoring of water pollution grew out of various disciplines, such as aquatic ecology and (eco)toxicology. It has now become a scientific tool for monitoring the degree of pollution of aquatic systems. The present book is a comprehensive review of the field. The most promising techniques used in the biomonitoring of polluted water are discussed in the light of their advantages and limitations.

Topics: Materials Science

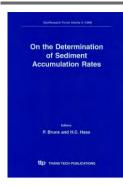
Keywords: Aquatic Ecosystems, Bioindicators, Biomonitoring, Toxicology, Water Pollution

Prices: Print: 978-0-87849-845-1 US\$ 160.00/ EUR 160.00 eBook: 978-3-0357-3990-9

US\$ 160.00/ EUR 160.00 eBook Single-User:

eBook Multi-User: US\$ 280.00/ EUR 280.00 320 pages, 1999

https://www.scientific.net/978-0-87849-845-1/book



On the Determination of Sediment Accumulation Rates

Volume in the series: 39 Edited by: P. Bruns, H.C. Hass

Sediment accumulation rates are an essential tool for the understanding of processes related to the deposition of organic and inorganic materials in marine and lacustrine environments. Sediment accumulation rates are not only a measure of the speed of deposition, but also represent a very useful tool for further paleoenvironmental reconstructions of climate history or biotic evolution as seen in the fossil record.

Topics: Materials Science

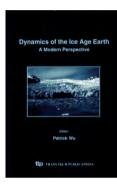
Keywords: Age-Depth Models, Alaskan Shelves and Lakes, Arctic Ocean, Bioturbation, Brownian Motion, Coccolithophore,

Continental Margin, Holocene, IRD, Luminescence, Manganese Nodules, Mass Accumulation Rate, ODSN, Okhotsk Sea, Persistence, Quaternary, Reflection Seismics, Reworking, Sediment Export, Sedimentation Rate

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US\$ 160.00/ EUR 160.00 eBook: 978-3-0357-3988-6 eBook Single-User:

US\$ 280.00/ EUR 280.00 eBook Multi-User: 256 pages, 1999 https://www.scientific.net/978-0-87849-837-6/book



Dynamics of the Ice Age Earth

Volume in the series: 38 Edited by: Patrick Wu

Although the last Ice Age ended about ten thousand years ago, its effects are still influencing human activities today - for example: coastal engineering, siting of nuclear waste depositories, intraplate earthquake mitigation, inaccuracy of a global positioning due to changes in the Geodetic Reference Frame, etc.

he recognition of Ice Ages and glacial isostasy led to the first scientific revolution in earth science. During the last few decades, studies of the Dynamics of the Ice Age Earth have brought together various disciplines - including geomorphology, geodynamics, rock and ice rheology, geodesy, glaciology, oceanography, climatology, astronomy, engineering and archeology. Recent interest in the subject has surged forward due to new advances in space-age geodetic techniques and new developments in modeling methods.

Topics: **Materials Science**

Deformation, Diffusion Creep, Geopotential, Glacial Isostasy, Glacial Rebound, Global Positioning System (GPS), **Keywords:**

Holocene, Ice Rheology, Ice Sheet, Initial Stress, Mantle Rheology, Mantle Viscosity, Normal Modes, Postglacial

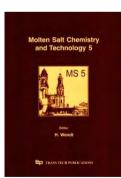
Rebound, Relative Sea Levels, Rheology, Sea Level, Subsidence, Viscoelasticity, Viscosity

Prices: US\$ 209.00/ EUR 209.00 Print: 978-0-87849-810-9

eBook Single-User: US\$ 198.00/ EUR 198.00 eBook: 978-3-0357-3987-9

eBook Multi-User: US\$ 347.00/ EUR 347.00 656 pages, 1998

https://www.scientific.net/978-0-87849-810-9/book



Molten Salt Chemistry and Technology 5

Volume in the series: 37

Proceedings of the 5th International Symposium on Molten Salt Chemistry and Technology (MS 5), Dresden, Germany, August 1997

Edited by: H. Wendt

This fifth conference on Molten Salt Chemistry and Technology focused mainly on applied science and questions of technological concern, but also included aspects of fundamental research. The organizers moreover were careful to organize four special sessions on less conventional issues, namely: molten carbonate fuel cells, hot corrosion, slags and glass forming melts and low temperature melts.

Topics: Materials Science

Keywords: Aluminum (Al), Chloride Melts, Corrosion, Cyclic Voltametry (CV), Electro-Deposition, Electrolysis, Electrorefining, Fluoride, Hot Corrosion, Ionic Liquid (IL), MCFC, Molten Carbonate, Molten Carbonate Fuel Cell,

Molten Salt, Molten Salt Electrolysis, Oxidation, Phase Diagram, Structure, Surface Tension, Viscosity

Print: 978-0-87849-805-5 Prices: US\$ 319.00/ EUR 319.00

US\$ 198.00/ EUR 198.00 eBook: 978-3-0357-3986-2 eBook Single-User:

eBook Multi-User: US\$ 347.00/EUR 347.00 656 pages, 1998

https://www.scientific.net/978-0-87849-805-5/book



Fatigue Data Handbook

Volume in the series: 36

Edited by: A. Buch

This authoritative handbook presents an extensive compilation of data covering all important fatigue situations - fatigue strength of steels and other materials, notch-, size-, and mean stress effects, influence of temperature and corrosion, influence of special surface treatments, fatigue of structural elements and welds, aircraft fatigue, multilevel loading test programs, fatigue performance prediction etc.As is well known, fatigue investigations are often extremely time-consuming. The results of the tests depend upon numerous factors, and therefore handbook data must include all of the parameters which affect reported test results. The calculation of fatigue life and strength cannot be performed without having appropriate information concerning the specific fatigue situation. Nor can test programs be properly prepared without knowing the service conditions and the results of previous tests as, otherwise, the results obtained cannot be generalized. Information on component fatigue behaviour is of importance not only to machine designers but also to production engineers in charge of component manufacture, since processing strongly affects fatigue strength, and to maintenance engineers in charge of the operation and repair of cyclically loaded machine elements.

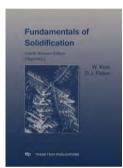
Tonics: Materials Science

Keywords: Corrosion, Fatigue, Fatigue Limits, Fatigue Strength Prediction, Notch Effect

Prices: US\$ 165.00/ EUR 165.00 Print: 978-0-87849-803-1 eBook Single-User: US\$ 165.00/ EUR 165.00 eBook: 978-3-0357-3985-5

US\$ 289.00/ EUR 289.00 eBook Multi-User: 352 pages, 1998

https://www.scientific.net/978-0-87849-803-1/book



Fundamentals of Solidification

Volume in the series: 35

Edited by: Dr. W. Kurz and Dr. David Fisher

Solidification phenomena play an important role in many of the processes used in fields ranging from production engineering to solid-state physics. The broad range of applications of solidification models - from the large tonnages of continuously cast products, through superalloy precision castings, to high-purity single crystals - means that a book such as the present one must cater for the requirements of a very wide range of readers.

Topics: Materials Science

Keywords: Dendrites, Precision Casting, Solidification, Solid-State Physics, Solute Redistribution, Superalloys

Prices: US\$ 165.00/ EUR 165.00 Print: 978-0-87849-804-8 Print: eBook Single-User: US\$ 165.00 / EUR 165.00 eBook: 978-3-0357-3239-9

> eBook Multi-User: US\$ 289.00/ EUR 289.00 316 pages, 1998

> > https://www.scientific.net/978-0-87849-804-8/book



Air Quality Management

Volume in the series: 34

Proceedings of the 10th Regional IUAPPA Conference on Air Quality Management (IUAPPA-10), Gümüssuyu, Istanbul, Turkey, September 1997

Edited by: S. Incecik, E. Ekinci, F. Yardim, A. Bayram

In recent years, Air Quality Management has become of major importance, especially in megacities, i.e. those with more than 10 million inhabitants. The present publication provides scientists and engineers working in this area with the most recent results touching all major aspects of this highly important field.

Topics: Materials Science

Air Pollution, Air Quality, Air Quality Management, Atmospheric Boundary Layer, Cement, Dry Deposition, **Keywords:**

Emission, Emission Inventory, Forest, Health Effect, Heavy Metal, Mediation, Ozone, PAH, PCB, Pollution,

Purification, Sodar, Sustainable Urban Development, Trace Elements

Prices: US\$ 220.00/ EUR 220.00 Print: 978-0-87849-772-0

eBook Single-User: US\$ 198.00/ EUR 198.00 eBook: 978-3-0357-3984-8

US\$ 347.00/ EUR 347.00 eBook Multi-User: 744 pages, 1997

https://www.scientific.net/978-0-87849-772-0/book



Ceramic Heritage

Volume in the series: 33

Proceedings of Session 4 of the 5th Conference and Exhibition of the European Ceramic Society (ECERS V), Versailles, France, June 1997

Edited by: A. Bouquillon

This book comprises the Proceedings of Session 4 of the 5th Conference and Exhibition of the European Ceramic Society, Versailles, France, June 1997. Herein, 22 papers treat various aspects of the subject and cover a wide range of historical and geographical information.

Topics: Materials Science

Keywords: Acre, Alteration, Ceramic, EDS, Glaze, Scanning Electron Microscope (SEM)

Prices: Print: **US\$ 82.00/ EUR 82.00** Print: 978-0-87849-765-2

eBook Single-User: **US\$ 164.00/ EUR 164.00** eBook: 978-3-0357-3983-1

eBook Multi-User: US\$ 287.00/ EUR 287.00 82 pages, 1997



Recycling the Resource

Volume in the series: 32

Proceedings of the Second International Conference on Ecological Engineering for Wastewater Treatment, held in Wädenswil - Zürich, September 1995

Edited by: J. Staudenmann, A. Schönborn, C. Etnier

This book focuses on treatment approaches that include a recycling loop for the water, nutrients, energy, and other resources in wastewater. The preliminary indications are that decentralized, re-circulating systems for wastewater treatment can be significantly cheaper than the building and maintaining of conventional systems.

Topics: Materials Science

Keywords: Aquaculture, Biomass, Constructed Wetland, Duckweed, Ecological Engineering, Human Urine, Hygiene, Land

Treatment, Natural System, Nitrogen, Nutrient, Nutrient Recycling, Phosphorus, Plant Production, Recycling,

Sewage, Sewage Sludge, Social Aspects, Wastewater, Wastewater Treatment

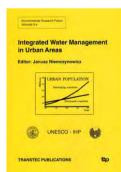
Prices: Print: **US\$ 226.00/ EUR 226.00** Print: 978-0-87849-741-6

eBook Single-User: **US\$ 198.00/ EUR 198.00** eBook: 978-3-0357-3982-4

eBook Multi-User: **US\$ 347.00/ EUR 347.00** 500 pages, 1996

https://www.scientific.net/978-0-87849-741-6/book

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Integrated Water Management in Urban Areas

Volume in the series: 31

Proceedings of the International Symposium on Integrated Water Management in Urban Areas, held in Lund, Sweden, September 1995

Edited by: Janusz Niemczynowicz

The continuing growth of urban populations throughout the world is one of the most frightening problems of today. The problems of megacities, i.e. those with more than 10 million inhabitants and which are growing fastest in developing countries, must be fully recognized within the context of the world environment.

Topics: Materials Science

Keywords: Developing Countries, Dry Sanitation, Economic Management, Environment Protection, Flooding, Geographical

Information System (GIS), Integrated Water Management, Management, Mathematical Models, Modeling, Population Increase, Stormwater Infiltration, Urban Areas, Urban Growth, Wastewater Treatment, Water

Management, Water Pollution, Water Quality Management, Water Storage, Water Supply

Prices: Print: US\$ 231.00 / EUR 231.00 Print: 978-0-87849-736-2

eBook Single-User: **US\$ 198.00/ EUR 198.00** eBook: 978-3-0357-3981-7

eBook Multi-User: US\$ 347.00/ EUR 347.00 492 pages, 1996

https://www.scientific.net/978-0-87849-736-2/book



Applications of Artificial Intelligence

Volume in the series: 30

Proceedings of the 7th Portuguese Conference on Artificial Intelligence, held in Funchal, Madeira Island, Portugal, October 1995

Edited by: Nuno J. Mamede and Carlos Pinto-Ferreira

This volume reviews the most recent developments in the fields of Expert Systems, Robots and Vision Systems, Fuzzy Logic and Neural Networks.

Topics: Materials Science

Keywords: Artificial Intelligence (AI), Back-Propagation, Computer Vision, Decision Support System (DSS), Expert System,

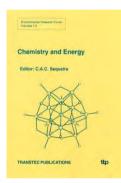
Neural Network (NN), Visual Servoing

Prices: Print: **US\$ 149.00/ EUR 149.00** Print: 978-3-908450-17-7

eBook Single-User: **US\$ 149.00/ EUR 149.00** eBook: 978-3-0357-3993-0

eBook Multi-User: US\$ 261.00 / EUR 261.00 304 pages, 1996

https://www.scientific.net/978-3-908450-17-7/book



Chemistry and Energy

Volume in the series: 29

Proceedings of the 2nd European East-West Workshop on Chemistry and Energy, held in Sintra, Portugal, March 1995

Edited by: C.A.C. Sequeira

The present volume is a collection of papers written by leading experts who are active in the pivotal roles played by chemists in the energy industry and its impact on society. Covered here are the areas of chemistry, physics, materials science, electrochemistry, energy research, electrical engineering and battery manufacture.

Topics: Materials Science

Keywords: Binary Mixtures, Bipolar Membrane, Coal Liquefaction, Conductivity, Electrolytic Industries, Energy, Extract,

Fission Products, High-Temperature, Ignition, Intermetallic, Molten Salt, Numerical Simulation, Phase-Domain Size, Photoelectrosynthetic Cell, Polymer Electrolyte, Reprocessing, Residue, Sulphuric Acid Process, V_2O_5

Prices: Print: **US\$ 231.00/ EUR 231.00** Print: 978-0-87849-724-9

eBook Single-User: **US\$ 198.00/ EUR 198.00** eBook: 978-3-0357-3980-0

eBook Multi-User: **US\$ 347.00/ EUR 347.00** 448 pages, 1996

https://www.scientific.net/978-0-87849-724-9/book



Non-Metallic Elements in Liquid Metals

Volume in the series: 28

Edited by: M. Shimoji and T. Itami

The purpose of this book is to discuss the properties of non-metallic elements, when dissolved as a minor impurity in liquid metals and alloys, in terms of statistical thermodynamics, quantum mechanics and the latest structural models. The behaviour of non-metallic elements in liquid metals is one of the most important problems in metallurgical and physical chemistry, since it plays a central role in the manufacture of metallic materials.

Topics: Materials Science

Keywords: Electron Theory, Liquid Metals, Metallic Bonding, Non-Metallic Elements, Thermodynamics

Prices: Print: **US\$ 187.00/ EUR 187.00** Print: 978-0-87849-711-9

eBook Single-User: **US\$ 187.00/ EUR 187.00** eBook: 978-3-0357-3978-7

eBook Multi-User: US\$ 327.00/ EUR 327.00 264 pages, 1996

https://www.scientific.net/978-0-87849-711-9/book



Advances in Jurassic Research

Volume in the series: 27 Edited by: A.C. Riccardi

Research in the field of Jurassic Stratigraphy has been increasingly active up to the present time. The aim of this volume is to present new results as well as to suggest areas for further research work and new and/or different stratigraphical tools, such as Sequence Stratigraphy. Formal questions on Jurassic Stratigraphy are also discussed, such as fine definitions of the boundaries of stages, series and of the system itself.

Topics: Materials Science

Keywords: Ammonites, Ammonitina, Ammonoids, Argentina, Biostratigraphy, Chronostratigraphy, Cuyo Group, Early

Mesozoic, Indo-East-African Province, Jurassic, Kachchh, Late Jurassic, Middle Jurassic, Neuquén Basin,

Paleobiogeography, Rifting, Sequence Stratigraphy, Stratigraphy, Tithonian, Upper Jurassic

Prices: Print: **US\$ 209.00/ EUR 209.00** Print: 978-0-87849-717-1

eBook Single-User: **US\$ 198.00/ EUR 198.00** eBook: 978-3-0357-3979-4

eBook Multi-User: **US\$ 347.00/ EUR 347.00** 508 pages, 1996

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Organization and Information Systems

Volume in the series: 26

Proceedings of the International Conference on Organization and Information Systems held in Bled, Slovenia, September 1995

Edited by: Zdravko Kaltnekar and Tone Ljubic

Recently, a strong correlation has been felt between the progressing abilities of information technology and the needs of organizations to link all their activities into a working system.

Topics: Materials Science

Keywords: Data Selection, Employees Development, Employees Selection, Horticulture, Human Resource Development,

Information, Information Overload, Information Strategy, Information System, Intensive Health Care, Management, Measures Issues, MIS, Organisation, Simulation, Slovenia, Social Sciences, Special Libraries, Supply

Chain, Utility Evaluation Methods

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eBook Multi-User: **US\$ 347.00/ EUR 347.00** 500 pages, 1995

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https://www.scientific.net/978-0-87849-717-1/book



X-Ray Diffraction Analysis of Ionic Liquids

Volume in the series: 25

Edited by: H. Ohno, K. Igarashi, N. Umesaki and K. Furukawa

Materials such as molten salts and liquid metals have become more and more important in the field of nuclear engineering, solar and thermal energy, fuel cells and related fields. The physical properties of molten salts are closely related to their ionic liquid structure and it is essential to know this structure for the systematic understanding of the physical properties.

Topics: Materials Science

Keywords: Halides, Ionic Liquids, Liquid Metals, Molten Salts, Solar Thermal Energy, X-Ray Diffraction Analysis

Prices: Print: **US\$ 187.00/ EUR 187.00** Print: 978-0-87849-676-1

eBook Single-User: **US\$ 187.00/ EUR 187.00** eBook: 978-3-0357-3977-0

eBook Multi-User: **US\$ 327.00/ EUR 327.00** 236 pages, 1994

https://www.scientific.net/978-0-87849-676-1/book

Electrochemical Technology of Molton Salts CAC Sequiria CAC SEQUIRIA

Electrochemical Technology of Molten Salts

Volume in the series: 24

European Workshop on Electrochemical Technology of Molten Salts, Sintra, Portugal, March 1993

Edited by: C.A.C. Sequeira and G.S. Picard

During the past several years there has been remarkable interest and activity in two fields of the fused salt chemistry, namely Molten Salt Extractive Metallurgy and High-Temperature Fuel Cells.

The required fundamental investigations for improving industrial processes are necessarily devoted to all aspects of the reactivity in molten salts. Therefore, most of the relevant disciplines are represented here: electrochemistry, spectroscopy and computer modelling.

Topics: Materials Science

Keywords: Activity Coefficient of Y₂O₃, Alkali Chloride, Aluminum (Al), Chloride Melts, Corrosion, Electrochemistry,

Electrolysis, Experiment, Melts, Micelle, Molten Carbonate, Molten Carbonate Fuel Cell, Molten Chlorides, Molten Salt, Molybdenum, Oxide Ion, Oxide-Chloride Melt, Oxygen Reduction, Raman Spectroscopy, Titanium

(Ti)

Prices: Print: **US\$ 325.00/ EUR 325.00** Print: 978-0-87849-669-3

eBook Single-User: **US\$ 198.00 / EUR 198.00** eBook: 978-3-0357-3976-3

eBook Multi-User: US\$ 347.00 / EUR 347.00 442 pages, 1993

https://www.scientific.net/978-0-87849-669-3/book



Interfaces - Structure and Properties

Volume in the series: 23

Edited by: S. Ranganathan, C.S. Pande, B.B. Rath and D.A. Smith

The behaviour of many materials critically depends on processes at interfaces and surfaces. This volume presents up-to-date reviews on atomic structure and properties of interfaces.

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Engineering Materials 200

Volume in the series: 22 Edited by: J.D. Watson

To commemorate Australia's Bicentenary year in 1988, a special volume was published, containing research and review papers by leading authorities from all over the world. The book focusses on the mechanical behaviour of engineering materials.

Topics: Materials Science, Mechanics

Keywords: Composites, Crystallization, Fe-Based Metallic Glasses, Fine Ceramic Fibres, Heat Treated Ferromagnetic, High

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Crystal Growth

Volume in the series: 21

Proceedings of the 3rd European Conference on Crystal Growth, Budapest, Hungary, May 1991

Edited by: A. Lörinczy

This 2-volume set presents 12 invited state-of-the-art i papers (volume 1) and a collection of 75 contributed papers on topics of current interest (volume 2).

Topics: Materials Science

Keywords: Electron Diffraction, Growth Inhibitors, Growth of II-VI Compounds, Growth Promotors, Liquid Zone Transport,

Organic Crystal, Quasicrystal, Silicon Crystal Growth

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Epitaxial Crystal Growth

Volume in the series: 20

Proceedings of the 1st International Conference on Epitaxial Crystal Growth, Budapest, Hungary, April 1990

Edited by: E. Lendvay

The importance of epitaxial growth has grown substantially since the early application of semiconductor systems. At present metals, high Tc superconductors, garnets, optical materials and numerous systems grown epitaxially are known.

Topics: Materials Science

Keywords: Crystal Growth, Epitaxial Systems, Garnets, Optical Materials, Semiconductors

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Principles of Solidification and Materials Processing

Volume in the series: 19

Proceedings of an Indo-US Workshop on Principles of Solidification and Materials Processing, Hyderabad, 1988

Edited by: R. Trivedi et al.

A collection of 60 invited contributions covering the important area of solidification and materials processing.

Topics: Materials Science

Keywords:

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Gallium Arsenide III

Volume in the series: 18

Proceedings of the 3rd International Conference on Physics & Technology of GaAs and other III-V Semiconductors, Lomnica, CSFR, December 1988

Edited by: P. Kordos

This issue is based on proceedings of the 3rd International Conference on Physics and Technology of GaAs and other III-V Semiconductors, Lomnica, CSFR, December 1988. The collected articles present research results in studies of crystal properties and preparation methods of gallium arsenide and the use of gallium arsenide as a semiconductor compound with high electron mobility.

Topics: Materials Science

Keywords: Crystal Properties, Diffusion, Epitaxial Growth, Gallium Arsenide, Ion Implantation, Semiconductor, Thin Film

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Compound Semiconductor Strained-Layer Superlattices

Volume in the series: 17 Edited by: R.M. Biefeld

-Effect of Internal Piezoelectric Fields on the Electronic Structure and Optical Properties of Strained-Layer Superlattices

-Metastability in Semiconductor Strained-Layer Structures

-The Morphology of MOCVD-Grown Semiconductor Multilayers

-Electrical Transport Studies of InGaAs/GaAs Strained-Layer Quantum-Well Structures

-Device Structures Based on GaAsP/InGaAs Strained Layer Superlattices and Their Stability

-The Preparation and Infrared Properties of In (AsSb) Strained-Layer Superlattices

-Ion Implantation of III-V Compound Semiconductor Strained-Layer Semiconductors Systems

-II-VI Strained-Layer Semiconductor Superlattices

Topics: Materials Science

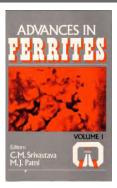
Keywords: Electronic Structure, Infrared Property, Ion Implantation, Morphology, Semiconductor, Superlattices

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Ferrites

Volume in the series: 16

Proceedings of the 5th International Conference on Ferrites, Bombay, India, 1989

Edited by: C. M. Srivastava

Following the successful conferences in Kyoto (1970 & Ellevue (1976) and San Francisco (1984), this 5th conference on Ferrites covers the following subjects:

Topics: Materials Science

Keywords:

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Lattice Theory of Elastic Constants

Volume in the series: 15 Edited by: S. Sengupta

30 Years after the appearance of the classic book by Born and Huang on the Dynamical Theory of Crystal Lattices, the present volume untertakes to present the field in the light of the extensive progress that has been made in the last three decades.

Topics: Materials Science

Keywords: Anisotropic Solids, Composite Materials, Crystal Lattices, Crystals, Elastic Constant, Elastic Constants, Lattice

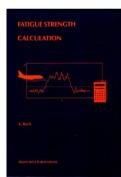
Theory, Polycrystalline Aggregates

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Fatigue Strength Calculation

Volume in the series: 14 Edited by: A. Buch

Optimal design using advanced materials is an ever more progressive and challenging domain within applied mechanics. Here is an invaluable self-contained source of information concerning methods of calculation of fatigue limits and lifetimes of structural elements.

While in most texts the treatment of this subject is confined merely to a phenomenological approach, this book provides the essential knowledge for an analytical treatment of design problems as well as a unique collection of appropriate data sheets which are required for the quantitative application of accepted design recommendations.

Topics: Materials Science

Keywords: Analytical Treatment, Applied Mechanics, Fatigue Strength, Lifetimes of Structural Elements

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Rules of Thumb for the Physical Scientist

Volume in the series: 13 Edited by: Dr. David Fisher

This book collects together the many simple empirical correlations which have been observed between diverse properties. These correlations are of invaluable help in estimating unknown properties and in forecasting the likely properties of unknown systems.

Topics: Materials Science

Keywords: Forecasting, Ion Beam Devices, Organic Compounds, Prediction of Sweetness, Semiconductor Heterostructures,

Superconductivity

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Gallium Arsenide II

Volume in the series: 12

Proceedings of the 2nd International Conference on Physics & Technology of GaAs and other III-V Semiconductors, Budapest, Hungary, 1986

Edited by: E. Lendvay

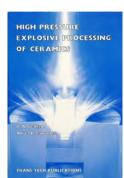
Gallium Arsenide presents 63 important papers given at the second international conference on the Physics and Technology of GaAs and other III-V Compounds, held in Budapest, Hungary, Sept. 1986. The wealth of new information presented at the conference focused on the following research areas:

Topics: Materials Science

Keywords: Gallium Arsenide (GaAs), III-V Compounds, Physics of Gallium Arsenide, Technology of Gallium Arsenide

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High Pressure Explosive Processing of Ceramics

Volume in the series: 11

Edited by: R.A. Graham and Akira B. Sawaoka

This edition is dedicated to researching the effect of high-pressure explosive compaction of ceramics powder on the process of binderless sintering and the properties of resulting functional ceramic materials.

Topics:

Keywords: Ceramics, Explosive Compaction, Microstructure, Powder Metallurgy, Shock Modification, Sintering

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High Efficiency Silicon Solar Cells

Volume in the series: 10 Edited by: Martin A. Green

The early chapters comprehensively review the optical and transport properties of silicon. Light trapping is described in detail. Limits on the efficiency of silicon cells are discussed as well as material requirements necessary to approach these limits. The status of current approaches to passifying surfaces, contacts and bulk regions is reviewed. The final section of the book describes the most practical approaches to the fabrication of high-efficiency cells capable of meeting the efficiency targets for both concentrated and non-concentrated sunlight, including a discussion of design and processing approaches for noncrystalline silicon.

Topics: Materials Science

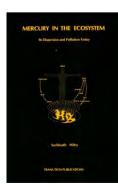
Carrier Transport, Energy Bands, Light Trapping, Non-Crystalline Silicon, Optical Properties, Phonon Spectra, **Keywords:**

Polycrystalline Silicon, Terrestrial Cells

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eBook Multi-User: US\$ 289.00/ EUR 289.00 240 pages, 1987

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Mercury in the Ecosystem

Volume in the series: 9

Edited by: S. Mitra

This comprehensive treatise on the environmental dispersion of mercury emphasizes the importance of "mercuryconsciousness" in the present-day world, where rapidly expanding metallurgical, chemical, and other industrial developments are causing widespread contamination of the atmosphere, soil, and water by this metal and its toxic organic derivatives.

Topics: Materials Science

Ecosystem, Environmental, Mercury, Mercury Applications, Mercury-Consciousness, Soil Contamination, Water **Keywords:**

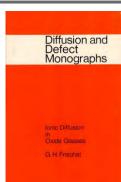
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Ionic Diffusion in Oxide Glasses

Volume in the series: 8 Edited by: G. H. Frischat

This monograph presents a comprehensive and critical review of the 1074 published work on self-diffusion and chemical diffusion in oxide glasses. Where possible, the results on glasses are compared with those of the corresponding crystalline phases. Other ionic transport processes were also described, like electrical conductivity, dielectric relaxation, or internal friction.

Topics: Materials Science

Keywords: Activation Energy, Annealing, Chemical Diffusion, Crystalline Quartz, Fick's Laws, Interdiffusion, Ionic

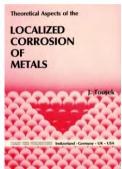
Transport, Multicomponent Diffusion, Oxide Glass, Self-Diffusion, Silicate Glass, Surface Properties

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Theoretical Aspects of the Localized Corrosion of Metals

Volume in the series: 7 Edited by: J. Tousek

A consistent theory is developed for predicting the incidence of localized corrosion and, most importantly, for the prediction of those substances which should be useful in inhibiting the process.

Topics: Materials Science

Keywords: Corrosion, Corrosion Inhibiting, Corrosion Protection, Metal Corrosion, Metal Corrosion Inhibitor, Metal

Corrosion Mechanisms

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Light Metals: Science and Technology

Volume in the series: 6

Edited by: C. Suryanarayana et al.

This volume contains the complete texts of reports presented at the International Symposium on "Light Metals: Science and Technology" (Varanasi, India, November 14-16, 1983). The collection represents to the reader's attention recent developments and achievements in technologies of extraction, processing, and applications of light metals and alloys.

Topics: Manufacturing, Materials Science

Keywords: Aluminium Alloy, Copper-Beryllium Alloy, Electrolysis, Heat Treatment, Hydrogen Embrittlement, Light Metals,

Magnesium Alloy, Mechanical Properties, Microstructure, Powder Metallurgy, Solidification, Titanium Alloy

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Metallic Glasses: Production, Properties and Applications

Volume in the series: 5

Edited by: T.R. Anantharaman

Rapidly Solidified Metals constitute today a rapidly multiplying species of metallic materials with excellent combinations of properties that make them attractive alternatives and often serious competitors to conventional alloys in diverse industrial applications.

Topics: Materials Science

Keywords: Conventional Alloys, Industrial Applications, Metallic Glasses, Metallic Materials, Rapidly Solidified Metals

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Diffusion in Metals and Alloys

Volume in the series: 4

Edited by: F.J. Kedves and D.L. Beke

The proceedings of an International Conference "Diffusion in Metals and Alloys" (DIMETA-82, Hungary, September 1982) are related to physical metallurgy and are dedicated to researching various types of diffusion processes in metals and alloys, intermetallic compounds, amorphous metals, and heterogeneous systems. There are articles in this issue also devoted to grain boundary and surface diffusion phenomena, crystallographic defects, and novel experimental methods of diffusion phenomena study.

Topics: Materials Science

Keywords: Alloy, Crystallographic Defect, Diffusion, Dislocation, Grain Boundary Diffusion, Heterogeneous System, High-

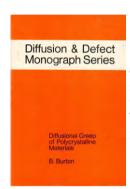
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Diffusion & Defect Monograph Series No 5

Volume in the series: 3 Edited by: B. Burton

The presented monograph is devoted to the problem of diffusional creep of the polycrystalline materials. In monograph are reviewed chronologically recent developments in this sphere and included some theoretical models and results of their experimental verification for the prediction of the creep behavior of materials.

Topics: Materials Science, Mechanics

Keywords: Creep Rate, Diffusion, Diffusion Creep, Dislocation Creep, Grain Boundary Sliding, Polycrystalline Material

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Non-Crystalline Solids

Volume in the series: 2 Edited by: G. H. Frischat

This edition is dedicated to researching non-crystalline materials starting from non-crystalline metals and alloys and finishing amorphous polymers, semiconductors, and various types of glasses. Readers will find here descriptions of methods to study non-crystalline materials, results of analysis of electrical and optical properties of amorphous semiconductors, and other detailed information about the structure and properties of non-crystalline matter.

Topics:

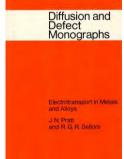
Keywords: Amorphous Polymer, Amorphous Semiconductor, Diffusion, Glass, Glass Strengthening, Non-Crystalline

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Diffusion and Defect Monographs No2

Volume in the series: 1

Edited by: J N Pratt and R G R Sellors

This monograph is devoted to the analysis and investigation of the electrodiffusion phenomenon. The application of an electric field to a metal, alloy, or other material may result in the transport of matter as well as the flow of electrons. This phenomenon, variously described as electrotransport, electromigration, or electrodiffusion, is most commonly manifested in the separation of the components of an alloy which results from their different induced rates or directions of migration. An applied field may similarly produce In pure elements a directed displacement of vacancies or interstitials (self-transport) or different isotopes (the Haeffner effect).

Topics: Materials Science

Keywords: Crystalline Solids, Electrodiffusion, Electromigration, Electrotransport, Lattice Correlation, Liquid Alloy,

Substitutional Alloy, Thin Film

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