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Handbook of Environmental Degradation of Materials Handbook of Environmental Degradation of Materials Materials Degradation and Its Control by Surface Engineering Environmental Degradation of Advanced and Traditional Engineering Materials Environmental Degradation of Advanced and Traditional Engineering Materials Degradation of Implant Materials Corrosion Corrosion and Degradation of Materials Thermal Degradation of Polymeric Materials Applied Metallurgy and Corrosion Control Nano-Materials as Photocatalysts for Degradation of Environmental Pollutants Environmental Degradation of Engineering Materials & Materials Engineering and Technologies Proceedings of the 15th International Conference on Environmental Degradation of Materials in Nuclear Power Systems - Water Reactors Environmental Degradation of Metals Degradation Rate of Bioresorbable Materials Electrical Degradation and Breakdown in Polymers Biological Performance of Materials Role of Characterization in Understanding Environmental Degradation of Materials Durability and Reliability of Polymers and Other Materials in Photovoltaic Modules Ninth International Symposium on Environmental Degradation of Materials in Nuclear Power Systems Environmental Degradation of Materials and Corrosion Control in Metals Proceedings of the 18th International Conference on Environmental Degradation of Materials in Nuclear Power Systems – Water Reactors Fibrous Polymeric Composites Introduction to Surface Engineering Proceedings of the Third International Symposium on Environmental Degradation of Materials in Nuclear Power Systems--Water Reactors Fundamentals of Polymer Degradation and Stabilization Mechanisms of Chemical Degradation of Cement-based Systems Handbook of UV Degradation and Stabilization Environmental Degradation of Materials in Nuclear Power Systems XII Proceedings of the Eighth International Symposium on Environmental Degradation of Materials in Nuclear Power Systems--Water Reactors Thermal Degradation of Polymeric Materials Environmental Degradation of Materials in Nuclear Power Systems XII [electronic Resource] Analytical Strategies for Cultural Heritage Materials and their Degradation Proceedings of the Second International Symposium on Environmental Degradation of Materials in Nuclear Power Systems--Water Reactors Environmental Degradation of Industrial Composites Photocatalytic Degradation of Dyes Bifurcation and Degradation of Geomaterials with Engineering Applications Concise Encyclopedia of High Performance Silicones Environmental Degradation of Materials in Nuclear Power Systems - Water Reactors Tribocorrosion

Deterioration of cement-based materials is a continuing problem, as it results in the substantial shortening of the lives of conventional concrete structures. The main costs result from poor performance and the need for early repair. With more advanced applications, where very long service lives are essential, such as the storage of nuclear waste, an understanding of the degradation processes in order to predict long term performance is very important. this book forms the proceedings of the latest Symposia at the Materials Research Society Autumn meeting in Boston. Volume is indexed by Thomson Reuters CPCI-S (WoS). The purpose of this collection is to disseminate the latest developments in the field of the environmental degradation of structural materials, hydrogen degradation, stress corrosion cracking, hydrogen and corrosion fatigue. The result is an excellent guide to the experimental study and modeling of environmentally-assisted cracking, advanced materials technologies and case studies of materials failure in various industrial applications. This book is a toolbox for identifying and addressing tribocorrosion situations from an engineering point of view. It is an accessible and introductory guideline to the emerging and interdisciplinary field of tribocorrosion covering the main concepts of tribology and corrosion. It describes specific tribocorrosion concepts, models and experimental techniques as well as their application to practical situations in which mechanical and chemical phenomena act simultaneously. Polymer matrix composites have been manufactured on an industrial scale for many years. Their uses are manifold, from thrust bearing pads, through insulation materials to oil and gas pipes, but they are affected by the environment in which they are used. The environmental effects can be detrimental and can lead to loss of performance, failure and break-down. This book provides vital information on the effects of factors such as time, temperature, ageing, fluid immersion and electrical fields on polymer matrix composites. It also reviews standard and specific testing methods for the various environmental factors and their combinations. Industrial case studies help complete this comprehensive volume which will be essential for mechanical engineers, materials engineers, consultants, specifiers and manufacturers. * Explains how and why composites react to environmental factors * Allows prediction of future events * Important topic, vital to industry This highly practical reference presents for the first time in a single volume all types of environmental degradation a metallic compound may undergo during its processing, storage, and service. Clarifying general and localized corrosion effects, Environmental Degradation of Metals describes the effects of atmospheric exposure, high-temperature gases, soil, water, weak and strong chemicals, liquid metals, and nuclear radiation. It determines whether corrosion can occur under a

given set of conditions, shows how improvements in component design can reduce corrosion, and details the high- and low-temperature effects of oxidizing agents. The book also investigates the instantaneous and delayed failure of solid metal in contact with liquid metal, highlights the influence of hydrogen on metal, and profiles radiation effects on metal. Nano-Materials as Photocatalysts for Degradation of Environmental Pollutants: Challenges and Possibilities contains both practical and theoretical aspects of environmental management using the processes of photodegradation and various heterogeneous catalysts. The book's main focus is on the degradation of harmful pollutants, such as petrochemicals, crude oils, dyes, xenobiotic pharmaceutical waste, endocrine disrupting compounds, and other common pollutants. Chapters incorporate both theoretical and practical aspects. This book is useful for undergraduate or university students, teachers and researchers, especially those working in areas of photocatalysis through heterogeneous catalysts. The primary audience for this book includes Chemical Engineers, Environmental Engineers and scientists, scholars working on the management of hazardous waste, scientists working in fields of materials science, and Civil Engineers working on wastewater treatment. Reviews recent trends in the photodegradation of organic pollutants Offers a bibliometric analysis of photocatalysis for environmental abatement Includes many degradation mechanisms of organic pollutants using various catalysts Includes examples on the degradation of organic pollutants from various sources, e.g., pharmaceuticals, dyes, pesticides, etc. Discusses the effect of nanocatalysts on soil, plants and the ecosystem During the past decade, the field of polymer degradation and stabilization has become a subject of central importance in polymer science and technology. This book provides a fundamental source of information designed for those with only a basic understanding of the background of the field. Nothing stays the same for ever. The environmental degradation and corrosion of materials is inevitable and affects most aspects of life. In industrial settings, this inescapable fact has very significant financial, safety and environmental implications. The Handbook of Environmental Degradation of Materials explains how to measure, analyse, and control environmental degradation for a wide range of industrial materials including metals, polymers, ceramics, concrete, wood and textiles exposed to environmental factors such as weather, seawater, and fire. Divided into sections which deal with analysis, types of degradation, protection and surface engineering respectively, the reader is introduced to the wide variety of environmental effects and what can be done to control them. The expert contributors to this book provide a wealth of insider knowledge and engineering knowhow, complementing their explanations and advice with Case Studies from areas such as pipelines, tankers, packaging and chemical processing equipment ensures that the reader understands the practical measures that can be put in place to save money, lives and the environment. The Handbook’s broad scope introduces the reader to the effects of environmental degradation on a wide range of materials, including metals, plastics, concrete,wood and textiles For each type of material, the book describes the kind of degradation that effects it and how best to protect it Case Studies show how organizations from small consulting firms to corporate giants design and manufacture products that are more resistant to environmental effects This collection presents an exchange of ideas among scientists and engineers about the economic and safety concerns surrounding environmentally induced materials problems which lead to nuclear power plant outages. Scientists and engineers concerned with the environmental degradation processes (corrosion, mechanical, and radiation effects) present their latest results on such topics as life extension/relicensing and materials problems associated with spent fuel storage and radioactive waste disposal. This collection will be of interest to utility engineers, reactor vendor engineers, plant architect engineers, researchers concerned with materials degradation, and consultants involved in design, construction, and operation of water reactors. This highly illustrated reference work covers the three principal types of surface technologies that best protect engineering devices and products: diffusion technologies, deposition technologies, and other less commonly acknowledged surface engineering (SE) techniques. Various applications are noted throughout the text and additionally whole chapters are devoted to specific SE applications across the automotive, gas turbine engine (GTE), metal machining, and biomedical implant sectors. Along with the benefits of SE, this volume also critically examines SE's limitations. Materials degradation pathways - those which can and those which cannot be mitigated by SE - are rigorously explained. Written from a scientific, materials engineering perspective, this concise text is supported by high-quality images and photo-micrographs which show how surfaces can be engineered to overcome the limits of conventionally produced materials, even in complex or hostile operating environments. This book is a useful resource for undergraduate and postgraduate students as well as professional engineers. This book reviews the current understanding of the mechanical, chemical and biological processes that are responsible for the degradation of a variety of implant materials. All 18 chapters will be written by internationally renowned experts to address both fundamental and practical aspects of research into the field. Different failure mechanisms such as corrosion, fatigue, and wear will be reviewed, together with experimental techniques for monitoring them, either in vitro or in vivo. Procedures for implant retrieval and analysis will be presented. A variety of biomaterials (stainless steels, titanium and its alloys, nitinol, magnesium alloys, polyethylene, biodegradable polymers, silicone gel, hydrogels, calcium phosphates) and medical devices (orthopedic and dental implants, stents, heart valves, breast implants) will be analyzed in detail. The book will serve as a broad reference source for graduate students and researchers studying biomedicine, corrosion, surface science, and electrochemistry. Bioengineers need a thorough grounding in biocompatibility - the biological performance of materials. Until now, there were no publications suitable for a neophyte in the field; prior publications were either not comprehensive or focused on rather narrow interests. Drawing on the author's 35 years of experience as a teacher, researcher, and consultant in biomaterials science and engineering (BSE), Biological Performance of Materials: Fundamentals of Biocompatibility, Fourth Edition focuses primarily on principles of biological performance at a relatively fundamental level, analyzing interactions between living organisms and nonliving materials used in medical devices - the subject that sets BSE apart as a distinct field of investigation. Following an introductory section, the book is divided into three sections: the material response to biological systems,

host response to biomaterials, and test methods for determining biological response in vitro as well as in animal models and clinical settings. Supplemental "Interparts" summarize the physical properties of commonly used metallic, polymeric, and ceramic biomaterials. They also provide a guide to understanding the clinical performance of implanted biomaterials. This book serves as a comprehensive resource on metals and materials selection for the petrochemical industrial sector. The petrochemical industry involves large scale investments, and to maintain profitability the plants are to be operated with minimum downtime and failure of equipment, which can also cause safety hazards. To achieve this objective proper selection of materials, corrosion control, and good engineering practices must be followed in both the design and the operation of plants. Engineers and professional of different disciplines involved in these activities are required to have some basic understanding of metallurgy and corrosion. This book is written with the objective of servings as a one-stop shop for these engineering professionals. The book first covers different metallic materials and their properties, metal forming processes, welding, and corrosion and corrosion control measures. This is followed by considerations in material selection and corrosion control in three major industrial sectors, oil & gas production, oil refinery, and fertilizers. The importance of pressure vessel codes as well as inspection and maintenance repair practices have also been highlighted. The book will be useful for technicians and entry level engineers in these industrial sectors. Additionally, the book may also be used as primary or secondary reading for graduate and professional coursework. The thirty papers of this proceedings, authored by specialist around the world, summarize the recent progress in the field of corrosion and performance of aluminum alloys, magnesium alloys and steels. Inhibitions of metals and stress corrosion cracking are treated profoundly, as well as recent technologies in corrosion monitoring, coating application and testing. Reviewing the analytical strategies used in the study of cultural heritage assets, this book pays particular attention to analytical methodology and ensuring reliable results are obtained for those working in conservation practice. The encyclopedia will be an invaluable source of information for researchers and students from diverse backgrounds including physics, chemistry, materials science and surface engineering, biotechnology, pharmacy, medical science, and biomedical engineering. One of the main, ongoing challenges for any engineering enterprise is that systems are built of materials subject to environmental degradation. Whether working with an airframe, integrated circuit, bridge, prosthetic device, or implantable drug-delivery system, understanding the chemical stability of materials remains a key element in determining their useful life. Environmental Degradation of Advanced and Traditional Engineering Materials is a monumental work for the field, providing comprehensive coverage of the environmental impacts on the full breadth of materials used for engineering infrastructure, buildings, machines, and components. The book discusses fundamental degradation processes and presents examples of degradation under various environmental conditions. Each chapter presents the basic properties of the class of material, followed by detailed characteristics of degradation, guidelines on how to protect against corrosion, and a description of testing procedures. A complete, self-contained industrial reference guide, this valuable resource is designed for students and professionals interested in the development of deterioration-resistant technological systems constructed with metallurgical, polymeric, ceramic, and natural materials. This book, the second edition of the first monograph fully devoted to UV degradation and stabilization ever published in English, has 12 chapters discussing different aspects of UV related phenomena occurring when polymeric materials are exposed to UV radiation. In the introduction the existing literature has been reviewed to find out how plants, animals and humans protect themselves against UV radiation. This review permits evaluation of mechanisms of protection against UV used by living things and potential application of these mechanisms in protection of natural and synthetic polymeric materials. This is followed by chapters with a more detailed look at more specific aspects of UV degradation and stabilization. A practical and up-to-date reference guide for engineers and scientists designing with plastics, and formulating plastics materials Explains the effects of UV light on plastics, and how to mitigate its effects through the use of UV stabilizers Surveys the range of UV stabilizers on the market, and provides advice on their selection and use Studies on the corrosion and degradation of materials play a decisive role in the novel design and development of corrosion-resistant materials, the selection of materials used in harsh environments in designed lifespans, the invention of corrosion control methods and procedures (e.g., coatings, inhibitors), and the safety assessment and prediction of materials (i.e., modelling). These studies cover a wide range of research fields, including the calculation of thermodynamics, the characterization of microstructures, the investigation of mechanical and corrosion properties, the creation of corrosion coatings or inhibitors, and the establishment of corrosion modelling. This Special Issue is devoted to these types of studies, which facilitate the understanding of the corrosion fundamentals of materials in service, the development of corrosion coatings or methods, improving their durability, and eventually decreasing corrosion loss. Written by an international assembly of leading philosophers, this volume includes seventeen newly–commissioned full–length survey articles on the central topics of epistemology. Thermal Degradation of Polymeric Materials, Second Edition offers a wealth of information for polymer researchers and processors who require a thorough understanding of the implications of thermal degradation on materials and product performance. Sections cover thermal degradation mechanisms and kinetics, as well as various techniques, such as thermogravimetry in combination with mass spectroscopy and infrared spectrometry to investigate thermal decomposition routes. Other chapters focus on polymers and copolymers, including polyolefins, styrene polymers, polyvinyl chloride, polyamides, polyurethanes, polyesters, polyacrylates, natural polymers, inorganic polymers, high temperature-resistant and conducting polymers, blends, organic-inorganic hybrid materials, nanocomposites, and biocomposites. Finally, other key considerations such as recycling of polymers by thermal degradation, thermal degradation during processing, and modelling, are discussed in detail. Explains mechanisms of polymer degradation, making it possible to understand and predict material behavior at elevated temperatures Offers systematic coverage of each polymer group that is supported by data detailed explanations and critical analysis Investigates thermal decomposition routes in new materials, such as organic-inorganic hybrid

materials and polymer nanocomposites This 15th Edition of the International Conference on Materials Degradation in Light Water Reactors focuses on subject areas critical to the safe and efficient running of nuclear reactor systems through the exchange and discussion of reseach results as well as field operating and management experience. Understanding the thermal degradation of polymers is of paramount importance for developing a rational technology of polymer processing and higher-temperature applications. Controlling degradation requires understanding of many different phenomena, including chemical mechanisms, the influence of polymer morphology, the complexities of oxidation chemistry, and the effects of stabilisers, fillers and other additives. This book offers a wealth of information for polymer researchers and processors requiring an understanding of the implications of thermal degradation on material and product performance. The second edition of Materials Degradation and Its Control by Surface Engineering continues the theme of the first edition, where discussions on corrosion, wear, fatigue and thermal damage are balanced by similarly detailed discussions on their control methods, e.g. painting and metallic coatings. The book is written for the non-specialist, with an emphasis on introducing technical concepts graphically rather than through algebraic equations. In the second edition, the graphic content is enhanced by an additional series of colour and monochrome photographs that illustrate key aspects of the controlling physical phenomena. Existing topics such as liquid metal corrosion have been extended and new topics such as corrosion inhibitors added. Contents:Mechanisms of Materials Degradation:Mechanical Causes of Materials DegradationChemical Causes of Materials DegradationMaterials Degradation Induced by Heat and Other Forms of EnergyDuplex Causes of Materials DegradationSurface Engineering:Discrete CoatingsIntegral Coatings and Modified Surface LayersCharacterization of Surface CoatingsApplication of Control Techniques:Control of Materials DegradationFinancial and Industrial Aspects of Materials Degradation and Its Control Readership: Engineers and scientists in industrial chemistry, materials science, surface and interface science. Keywords:Corrosion;Wear;Fatigue;Duplex Mechanisms;Surface Coating Technologies;Biocorrosion;Corrosion Inhibitors;Liquid Metal Corrosion;Mechanical Degradation;Chemical Degradation;Surface Engineering;Discrete Coatings;Integral Coatings;Advanced Surface Modification Technologies;Characterization of SurfacesReviews:“Guidelines for applications of surface engineering techniques to individual degradation mechanisms are covered. This does a concise job of suggesting basic selection criteria to be followed for specific degradation mechanisms … The authors present a good overview of the interaction of surface engineering treatments for control of material wastage from various causes.”Corrosion This two-volume set represents a collection of papers presented at the 18th International Conference on Environmental Degradation of Materials in Nuclear Power Systems – Water Reactors. The purpose of this conference series is to foster an exchange of ideas about problems and their remedies in water-cooled nuclear power plants of today and the future. Contributions cover problems facing nickel-based alloys, stainless steels, pressure vessel and piping steels, zirconium alloys, and other alloys in water environments of relevance. Components covered include pressure boundary components, reactor vessels and internals, steam generators, fuel cladding, irradiated components, fuel storage containers, and balance of plant components and systems. This book contains the scientific contributions to the 11th International Workshop on Bifurcation and Degradation in Geomaterials (IWBDG) held in Limassol-Cyprus, May 21-25, 2017. The IWBDG series have grown in size and scope, since their inception 30 years ago in Germany, covering more and wider areas of geomaterials and geomechanics research including modern trends. The papers cover a wide range of topics including advances in instabilities, localized and diffuse failure, micromechanical, multiscale phenomena, multiphysics modeling and other related topics. This volume gathers a series of manuscript by brilliant international scholars who work on modern recent advances in experimental, theoretical and numerical methods. The theoretical and applied mechanics are linked successfully with engineering applications in traditional and in emerging fields, such as geomechanics for the energy and the environment. The quality of the contributed papers has benefited from the peer review process by expert referees. This book can be used as a useful reference for research students, academics and practicing engineers who are interested in the instability and degradation problems in geomaterials, geomechanics, geotechnical engineering and other related applications. Nothing stays the same for ever. The environmental degradation and corrosion of materials is inevitable and affects most aspects of life. In industrial settings, this inescapable fact has very significant financial, safety and environmental implications. The Handbook of Environmental Degradation of Materials explains how to measure, analyse, and control environmental degradation for a wide range of industrial materials including metals, polymers, ceramics, concrete, wood and textiles exposed to environmental factors such as weather, seawater, and fire. Divided into sections which deal with analysis, types of degradation, protection and surface engineering respectively, the reader is introduced to the wide variety of environmental effects and what can be done to control them. The expert contributors to this book provide a wealth of insider knowledge and engineering knowhow, complementing their explanations and advice with Case Studies from areas such as pipelines, tankers, packaging and chemical processing equipment ensures that the reader understands the practical measures that can be put in place to save money, lives and the environment. The Handbook's broad scope introduces the reader to the effects of environmental degradation on a wide range of materials, including metals, plastics, concrete,wood and textiles For each type of material, the book describes the kind of degradation that effects it and how best to protect it Case Studies show how organizations from small consulting firms to corporate giants design and manufacture products that are more resistant to environmental effects Proceedings of a July 1997 convention, covering both traditional and newer characterization techniques for understanding environmental degradation. Contains sections on corrosion characterization of materials behavior and performance, corrosion of materials in water and marine environments, surface One of the main, ongoing challenges for any engineering enterprise is that systems are built of materials subject to environmental degradation. Whether working with an airframe, integrated circuit, bridge, prosthetic device, or implantable drug-delivery system, understanding the chemical stability of materials remains a key element in determining their useful life. Environmental

Degradation of Advanced and Traditional Engineering Materials is a monumental work for the field, providing comprehensive coverage of the environmental impacts on the full breadth of materials used for engineering infrastructure, buildings, machines, and components. The book discusses fundamental degradation processes and presents examples of degradation under various environmental conditions. Each chapter presents the basic properties of the class of material, followed by detailed characteristics of degradation, guidelines on how to protect against corrosion, and a description of testing procedures. A complete, self-contained industrial reference guide, this valuable resource is designed for students and professionals interested in the development of deterioration-resistant technological systems constructed with metallurgical, polymeric, ceramic, and natural materials. Durability and Reliability of Polymers and Other Materials in Photovoltaic Modules describes the durability and reliability behavior of polymers used in Si-photovoltaic modules and systems, particularly in terms of physical aging and degradation process/mechanisms, characterization methods, accelerated exposure chamber and testing, module level testing, and service life prediction. The book compares polymeric materials to traditional materials used in solar applications, explaining the degradation pathways of the different elements of a photovoltaic module, including encapsulant, front sheet, back sheet, wires and connectors, adhesives, sealants, and more. In addition, users will find sections on the tests needed for the evaluation of polymer degradation and aging, as well as accelerated tests to aid in materials selection. As demand for photovoltaics continues to grow globally, with polymer photovoltaics offering significantly lower production costs compared to earlier approaches, this book will serve as a welcome resource on new avenues. Provides comprehensive coverage of photovoltaic polymers, from fundamental degradation mechanisms, to specific case studies of durability and materials failure Offers practical, actionable information in relation to service life prediction of photovoltaic modules and accelerated testing for materials selection Includes up-to-date information and interpretation of safety regulations and testing of photovoltaic modules and materials Photocatalytic Degradation of Dyes: Current Trends and Future Perspectives covers in detail current trends and future aspects on photocatalytic degradation of organic dyes using novel photocatalytic techniques such as metallic nanoparticles, heterogeneous and hybrid systems using visible light irradiation. It highlights the most recent scientific and technological achievements and importance of degradation of dyes in the textile effluent by simple environmental friendly approaches using eco-friendly catalysts. It is of assistance to everyone interested in bioremediation of effluents: professionals, consulting engineers, academicians, and research scholars as well. Describes the basic photocatalytic techniques and their application in wastewater treatment Covers the key reactive species accounting for the photodegradation of different dyes, providing helpful guidelines that could be applied to foster the development of efficient photodegradation systems Includes Description of a wide variety of catalysts and their application in degradation of dyes in the effluent of variable matrices (such as textile effluent, pharmaceutical industry effluent, food industry effluent) Presents the application of doped semiconductors in the degradation of dyes, hybrid systems and their importance in the dye degradation Describes the biological synthesis of metallic nanostructures and their use in dye degradation using visible range of light irradiation Discusses the mechanistic aspect of the dye degradation using photo catalysts Bioresorbable materials are extensively used for a wide range of biomedical applications from drug delivery to fracture fixation, and may remain in the body for weeks, months or even years. Accurately predicting and evaluating the degradation rate of these materials is critical to their performance and the controlled release of bioactive agents. Degradation rate of bioresorbable materials provides a comprehensive review of the most important techniques in safely predicting and evaluating the degradation rate of polymer, ceramic and composite based biomaterials. Part one provides an introductory review of bioresorbable materials and the biological environment of the body. Chapters in Part two address degradation mechanisms of commonly used materials such as polymers and ceramics. This is followed by chapters on bioresorption test methods and modelling techniques in Part three. Part four discusses factors influencing bioresorbability such as sterilisation, porosity and host response. The final section reviews current clinical applications of bioresorbable materials. With its distinguished editor and multidisciplinary team of international contributors, Degradation rate of bioresorbable materials: prediction and evaluation provides a unique and valuable reference for biomaterials scientists, engineers and students as well as the medical community. Comprehensively reviews the most pertinent techniques in safely predicting and evaluating the degradation rate of bioresorbable materials Addresses degradation mechanisms of commonly used materials Discusses factors influencing bioresorbability such as sterilisation and host response This book emphasizes the scientific origin of deformation and damage of FRP composites under various environmental effects and analyses present understanding on degradation mechanisms, role of interfaces and addition of nanofillers Discusses micro-characterization of composites and interfaces, also includes micro-mechanisms and microscopic evidences to establish the structure-property correlation Elucidates advantages and limitations of FRP composites in supercritical applications The book is in five parts: Part I introduces the physical and chemical structure of polymers and their breakdown; Part II reviews electrical degradation in polymers, and Part III reviews conduction and deterministic breakdown in solids. Part IV discusses the stochastic nature of break-down from empirical and modelling viewpoints, and Part V indicates practical implications and strategies for engineers. Much of the discussion applies to non-crystalline materials generally.

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