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Bulletin of the Russian Academy of Sciences Elsevier
An Iron-based bulk metallic glass was studied using nanoindentation to examine the effects of fatigue on the onset of plasticity. Experiments were performed on samples in an as received and 0.8Tg 12-hour annealed condition. The nanoindentation testing procedure focused on investigating fatigue of these samples through cyclic loading as well as investigating the maximum shear stress induced through varied loading in the as-received sample. With respect to the maximum induced shear stress, no clear correlation between induced stress and the onset of plasticity in this material was observed. The results of fatigue in the as-received sample demonstrate material strengthening upon repeated loading, while the effect is absent in the annealed sample. The results are discussed in relation to material structure and free volume, and analysis suggests that structural relaxation during annealing serves to inhibit material strengthening by fatigue in metallic glasses, while cycling in the as-received sample likely strengthens due to a local effect.

Employment Law Springer Science & Business Media
"This book by Lisa Tauxe and others is a marvelous tool for education and research in Paleomagnetism. Many students in the U.S. and around the world will welcome this publication, which was previously only available via the Internet. Professor Tauxe has performed a service for teaching and research that is utterly unique."—Neil D. Opdyke, University of Florida
Advanced Structural Damage Detection Springer Science & Business Media
Model Validation and Uncertainty Quantification, Volume 3: Proceedings of the 39th IMAC, A Conference and Exposition on Structural Dynamics, 2021, the third volume of nine from the Conference brings together contributions to this important area of research and engineering. The collection presents early findings and case studies on fundamental and applied aspects of Model Validation and Uncertainty Quantification, including papers on: Inverse Problems and Uncertainty Quantification Controlling Uncertainty Validation of Models for Operating Environments Model Validation & Uncertainty Quantification: Decision Making Uncertainty Quantification in Structural Dynamics Uncertainty in Early Stage Design Computational and Uncertainty Quantification Tools.

Race Car Design Bloomsbury Publishing
This volume contains 22 articles on topics of current interest in functional analysis, operator theory and related areas. Some of the papers have connections with complex function theory in one and several variables, probability theory and mathematical physics. Surveys of some areas of recent progress in functional analysis are given and related new results are presented. The topics covered in this volume supplement the discussion of modern functional analysis in the previous Proceedings volumes. Together with the previous volumes, the reader obtains a good impression of many aspects of present-day functional analysis and its applications. Parts of this volume can be used profitably in advanced seminars and courses in functional analysis.

The Iron Age Cambridge University Press
Research on spontaneous processes of language acquisition has shown that early learner systems are based on lexical structures. At some point in acquisition this lexical-semantic system is given up in favour of a target-like functional category system. This work deals with the driving forces behind the acquisition of the functional properties of inflection, word-order variation, definiteness and agreement.
Ancient Gordion Aspen Publishing
Annotation Papers presented at technical sessions of an August 2002 conference deal with development of new methods in nonlinear finite elements and other numerical approaches, and with the application of existing techniques to more complex systems using more sophisticated modeling techniques. There are also papers on developments in computational techniques for plastic analysis of structures, including load limit analysis, shakedown analysis, and fatigue analysis. Numerical approaches described include subcycled hourglass control for explicit time integration of dynamic relaxation equations, and finite element analysis of complex corrosion defects. One computational model discussed is limit analysis of shells with a random patterns spread. There is no index. Annotation c. Book News, Inc., Portland, OR (booknews.com).
Advances in Smart Technologies in Structural Engineering CRC Press
A recipient of the PROSE 2017 Honorable Mention in Chemistry & Physics, Radioactivity: Introduction and History, From the Quantum to Quarks, Second Edition provides a greatly expanded overview of radioactivity from natural and artificial sources on earth, radiation of cosmic origins, and an introduction to the atom and its nucleus. The book also includes historical accounts of the lives, works, and major achievements of many famous pioneers and Nobel Laureates from 1895 to the present. These leaders in the field have contributed to our knowledge of the science of the atom, its nucleus, nuclear decay, and subatomic particles that are part of our current knowledge of the structure of matter, including the role of quarks, leptons, and the bosons (force carriers). Users will find a completely revised and greatly expanded text that includes all new material that further describes the significant historical events on the topic dating from the 1950s to the present. Provides a detailed account of nuclear radiation – its origin and properties, the atom, its nucleus, and subatomic particles including quarks, leptons, and force carriers (bosons) Includes fascinating biographies of the pioneers in the field, including captivating anecdotes and insights Presents meticulous accounts of experiments and calculations used by pioneers to confirm their findings
Computational Mechanics Springer Nature
"The environmental diversity of western North America is astounding; from the wind-scoured tundra of the high mountains to the seemingly desolate lowland deserts. No less remarkable is the record of plant usage by the various indigenous peoples who have been living there for more than twelve millennia. For the vast majority of this time, their livelihood, food, shelter, fuel, and medicine depended on their knowledge and use of the

plants that surrounded them. The most comprehensive overview in more than half a century on the interconnectedness of people and plants, this book and its companion volume, People and Plants in Ancient Eastern North America, present the latest information on three major topics: the uses of native plants, the history of crops and their uses, and the impact of humans on their environment. They not only contribute to our understanding of the lives of prehistoric people but also serve as guides for designing sustainable living today."--NHBS Environment Bookstore.

American Doctoral Dissertations Elsevier

Solid Mechanics: A Variational Approach, Augmented Edition presents a lucid and thoroughly developed approach to solid mechanics for students engaged in the study of elastic structures not seen in other texts currently on the market. This work offers a clear and carefully prepared exposition of variational techniques as they are applied to solid mechanics. Unlike other books in this field, Dym and Shames treat all the necessary theory needed for the study of solid mechanics and include extensive applications. Of particular note is the variational approach used in developing consistent structural theories and in obtaining exact and approximate solutions for many problems. Based on both semester and year-long courses taught to undergraduate seniors and graduate students, this text is geared for programs in aeronautical, civil, and mechanical engineering, and in engineering science. The authors' objective is two-fold: first, to introduce the student to the theory of structures (one- and two-dimensional) as developed from the three-dimensional theory of elasticity; and second, to introduce the student to the strength and utility of variational principles and methods, including briefly making the connection to finite element methods. A complete set of homework problems is included.

Automatic Control in Aerospace 2004 Springer Science & Business Media

This volume contains the proceedings of the Second International Workshop on Optimal Design and Control, held in Arlington, Virginia, 30 September-3 October, 1997. The First Workshop was held in Blacksburg, Virginia in 1994. The proceedings of that meeting also appeared in the Birkhauser series on Progress in Systems and Control Theory and may be obtained through Birkhauser. These workshops were sponsored by the Air Force Office of Scientific Research through the Center for Optimal Design and Control (CODAC) at Virginia Tech. The meetings provided a forum for the exchange of new ideas and were designed to bring together diverse viewpoints and to highlight new applications. The primary goal of the workshops was to assess the current status of research and to analyze future directions in optimization based design and control. The present volume contains the technical papers presented at the Second Workshop. More than 65 participants from 6 countries attended the meeting and contributed to its success. It has long been recognized that many modern optimal design problems are best viewed as variational and optimal control problems. Indeed, the

famous problem of determining the body of revolution that produces a minimum drag nose shape in hypersonic flow was first proposed by Newton in 1686. Optimal control approaches to design can provide theoretical and computational insight into these problems. This volume contains a number of papers which deal with computational aspects of optimal control.

Population Change and Rural Society SIAM

Submarine groundwater discharge (SGD) is a spatially pervasive phenomenon that adds freshwater, nutrients, dissolved metals, bacteria, and other constituents to the coastal ocean. This dissertation investigated SGD-related inputs of nutrients and fecal indicator bacteria (Escherichia coli and Enterococcus sp.) to coastal waters in two Hawaiian locations, the north shore of Kaua'i and the Kona coast of Hawai'i. Concentrations of caffeine, which has been used previously as a wastewater tracer, were measured in groundwater and surface water on the north shore of Kaua'i. Both study areas have relatively light levels of urban and agricultural development, and maintaining good water quality is essential for their tourism-based economies, coral reefs, fisheries, and traditional way of life. Radium (Ra), an element with naturally elevated concentrations in coastal groundwater, was used as an SGD tracer and a mass-balance approach was used to quantify SGD. On the north shore of Kaua'i, agriculture was associated with higher nitrate + nitrite concentrations in the fresh SGD component, while phosphate and silica appeared to be controlled by geological differences in aquifer substrate. High ammonium concentrations in the fresh SGD component at one site may have been caused by a leaky cesspool. In Kona, no relation between urban development or agriculture and groundwater nutrient concentrations was observed, but bare lava rock was associated with higher nitrate + nitrite and silica concentrations in fresh SGD. Sites closer to golf courses also had higher nitrate + nitrite concentrations. Conservative estimates of total SGD on the north shore of Kaua'i ranged from 1.3 to 7.8 L per meter per minute, or up to 10% of Hanalei River discharge, and SGD contributed significant nitrate + nitrite inputs to Hanalei Bay. Estimates of SGD in Kona ranged from 5 to 1200 L per meter per minute, with between 10 and 100% of the brackish SGD comprised by the fresh SGD component. SGD-related water and nutrient fluxes on the Kona Coast -- where no rivers and streams are present -- were large compared to those reported for other sites worldwide. Caffeine concentrations in environmental waters on the north shore of Kaua'i ranged from 0-88 ng/L, on the low end of what has been reported for other locations. Metribuzin, an herbicide, was also detected at concentrations from 4-11 ng/L in five groundwater and surface water samples. A sensitivity analysis of Ra-based methods of estimating water ages and coastal mixing rates revealed that water ages shorter than 3 d cannot be estimated with confidence using Ra-based methods, even if the only uncertainty considered is analytical error. In conclusion, this dissertation provides new data about SGD and related inputs of nutrients and bacteria to Hawaiian coastal waters, suggests that even low levels of development may influence nutrient concentrations in coastal groundwater, presents the first caffeine concentrations measured in

environmental water samples collected in a tropical setting, and explores the limits of applicability of Ra-based methods of estimating water ages and coastal mixing rates, providing guidance for researchers conducting Ra-based SGD studies in the future.

Report of 1994 Workshop on the Correlation of Marine and Terrestrial Records of Climate Changes in the Western United States Academic Press
Robust gear designs consider not only crack initiation, but crack propagation trajectories for a fail-safe design. In actual gear operation, the magnitude as well as the position of the force changes as the gear rotates through the mesh. A study to determine the effect of moving gear tooth load on crack propagation predictions was performed. Two dimensional analysis of an involuted spur gear and three-dimensional analysis of a spiral-bevel pinion gear using the finite element method and boundary element method were studied and compared to experiments. A modified theory for predicting gear crack propagation paths based on the criteria of Erdogan and Sih was investigated. Crack simulation based on calculated stress intensity factors and mixed mode crack angle prediction techniques using a simple static analysis in which the tooth load was located at the highest point of single tooth contact was validated. For three-dimensional analysis, however, the analysis was valid only as long as the crack did not approach the contact region on the tooth.

Routledge
This introductory text presents the applications of the finite element method to the analysis of conduction and convection problems. The book is divided into seven chapters which include basic ideas, application of these ideas to relevant problems, and development of solutions. Important concepts are illustrated with examples. Computer problems are also included to facilitate the types of solutions discussed.

Inputs of Nutrients and Pollutants to Hawaiian Coastal Waters from Submarine Groundwater Discharge Trans Tech Publications Ltd
This book constitutes thoroughly revised selected papers of the 5th International Conference on Numerical Analysis and Its Applications, NAA 2012, held in Lozenetz, Bulgaria, in June 2012. The 65 revised papers presented were carefully reviewed and selected from various submissions. The papers cover a broad area of topics of interest such as numerical approximation and computational geometry; numerical linear algebra and numerical solution of transcendental equation; numerical methods for differential equations; numerical stochastics, numerical modeling; and high performance scientific computing.

Landslides: Evaluation and Stabilization/Glissement de Terrain: Evaluation et Stabilisation, Set of 2 Volumes
Cambridge University Press
Explores the formation of power during secondary polity formation by integrating multifaceted ceramic and material analyses of Gordion.

Functional Categories in Learner Language Elsevier

Volume is indexed by Thomson Reuters CPCI-S (WoS). The study of damage evolution, location and characterisation is an important aspect of the growing area of SHM and is a major theme of the conference. The link between SHM and machine condition-monitoring is emphasised by the substantial contribution, to the proceedings, which concerns the application of damage assessment techniques to rotating machines. In order to analyse efficiently the data rich information, provided by monitoring and NDE techniques, it is necessary to use advanced signal processing procedures. A significant proportion of the conference is therefore dedicated to signal processing and computational methods.

Scientific and Technical Aerospace Reports CRC Press
This book collects invited lectures presented and discussed on the AMAS & ECCOMAS Workshop/Thematic Conference SMART'03. The SMART'03 Conference on Smart Materials and Structures was held in a 19th century palace in Jadwisin near Warsaw, 2-5 September 2003, Poland .It was organized by the Advanced Materials and Structures (AMAS) Centre of Excellence at the Institute of Fundamental Technological Research (IFTR) in Warsaw,ECCOMAS - European Community on Computational Methods in Applied Sciences and SMART-TECH Centre at IFTR. The idea of the workshop was to bring together and consolidate the community of Smart Materials and Structures in Europe. The workshop was attended by 66 participants from n European countries (Austria, Belgium, Finland, France, Germany, Italy, Poland, Portugal, Spain, U.K., Ukraine), 1 participant from Israel and 1 participant from the USA. The workshop program was grouped into the following major topics: 4 sessions on Structural Control (18 presentations), 3 sessions on Vibration Controland Dynamics (14 presentations), 2 sessions on Damage Identification (10 presentations), 2 sessions on Smart Materials (9 presentations). Each session was composed of an invited lecture and some contributed papers. Every paper scheduled in the program was presented, so altogether 51 presentations were given. No sessions were run in parallel. The workshop was attended not only by researchers but also by people closely related to the industry. There were interesting discussions on scientific merits of the presented papers as well as on future development of the field and its possible industrial applications.

Damage Assessment of Structures VI John Wiley & Sons
General Topology and Its Relations to Modern Analysis and Algebra II is comprised of papers presented at the Second Symposium on General Topology and its Relations to Modern Analysis and Algebra, held in Prague in September 1966. The book contains expositions and lectures that discuss various subject matters in the field of General Topology. The topics considered include the algebraic structure for a topology; the projection spectrum and its limit space; some special methods of homeomorphism theory in infinite-dimensional topology; types of ultrafilters on countable sets; the compactness operator in general topology; and the algebraic generalization of the topological theorems of Bolzano and Weierstrass. This publication will be found useful by all specialists in the field of Topology and mathematicians interested in General Topology.

People and plants in ancient western North America University of Arizona Press
Knowing the safety factor for limit states such as plastic collapse, low cycle fatigue or ratcheting is always a major design consideration for civil and mechanical engineering structures that are subjected to loads. Direct methods of limit or shakedown analysis that proceed to directly find the limit states offer a better alternative than exact time-stepping calculations as, on one hand, an exact loading history is scarcely known, and on the other they are much less time-consuming. This book presents the state of the art on various topics concerning these methods, such as theoretical advances in limit and shakedown analysis, the development of relevant algorithms and computational procedures, sophisticated modeling of inelastic material behavior like hardening, non-associated flow rules, material damage and fatigue, contact and friction, homogenization and composites.

Finite Element Analysis In Heat Transfer Springer Science & Business Media
Employment Law: Private Ordering and Its Limitations, Fourth Edition is organized around the rights and duties that flow between parties in an employment relationship. Through cases, detailed discussion of the facts, and accessible notes and questions, this book examines the laws that are intended to balance the competing interests and contractual obligations between employer and employee. The note materials also encourage students to think critically and creatively about how best to protect the interests of workers or employers. Practitioner exercises in planning, drafting, advising, and negotiating develop transactional lawyering skills. New to the Fourth Edition: Important Supreme Court and lower court cases in key areas including the scope of "employment," whistleblower and anti-retaliation protections, anti-discrimination laws, disability and other accommodations, noncompetition agreements, and mandatory arbitration clauses Addition of cases and note materials on hot topics including employment protections in the gig economy, workplace speech protections in a time of deep social and political conflict, the workplace implications of AI and other technologies, emergent privacy and cyber security issues, and innovations in accommodating workers' lives Updated problems and exercises Streamlined case and note editing Professors and students will benefit from: Comprehensive and deep coverage of key areas of workplace regulation Practical exercises in each chapter Note materials designed to provide both context and knowledge of emergent legal and social science scholarship Thematic consistency across chapters providing a unifying framework for the discussion of disparate topic areas