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**INTERNATIONAL JOURNAL OF
INTEGRATIVE HUMANISM**
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Reimagining Sustainable Cities Stephen M.

Wheeler 2021 A cutting-edge, solutions-oriented analysis of how we can reimagine cities around the world to build sustainable futures. What would it take to make urban places greener, more affordable, more equitable, and healthier for everyone? In recent years, cities have stepped up efforts to address climate and sustainability crises. But progress has not been fast enough or gone deep enough. If communities are to thrive in the future, we need to quickly imagine and implement an entirely new approach to urban development: one that is centered on equity and rethinks social, political, and economic systems as well as urban designs. With attention to this need

for structural change, Reimagining Sustainable Cities advocates for a community-informed model of racially, economically, and socially just cities and regions. The book aims to rethink urban sustainability for a new era. In Reimagining Sustainable Cities, Stephen M. Wheeler and Christina D. Rosan ask big-picture questions of interest to readers worldwide: How do we get to carbon neutrality? How do we adapt to a climate-changed world? How can we create affordable, inclusive, and equitable cities? While many books dwell on the analysis of problems, Reimagining Sustainable Cities prioritizes solutions-oriented thinking--surveying historical trends, providing examples of constructive action worldwide, and outlining alternative problem-solving strategies. Wheeler and Rosan use a social ecology lens and draw perspectives from multiple disciplines.

Positive, readable, and constructive in tone, Reimagining Sustainable Cities identifies actions ranging from urban design to institutional restructuring that can bring about fundamental change and prepare us for the challenges ahead.

Epoxy Composites

Jyotishkumar

Parameswaranpillai

2021-04-28 Discover a one-stop resource for in-depth knowledge on epoxy composites from leading voices in the field Used in a wide variety of materials engineering applications, epoxy composites are highly relevant to the work of engineers and scientists in many fields. Recent developments have allowed for significant advancements in their preparation, processing and characterization that are highly relevant to the aerospace and automobile industry, among others. In Epoxy Composites: Fabrication, Characterization and Applications, a

distinguished team of authors and editors deliver a comprehensive and straightforward summary of the most recent developments in the area of epoxy composites. The book emphasizes their preparation, characterization and applications, providing a complete understanding of the correlation of rheology, cure reaction, morphology, and thermo-mechanical properties with filler dispersion. Readers will learn about a variety of topics on the cutting-edge of epoxy composite fabrication and characterization, including smart epoxy composites, theoretical modeling, recycling and environmental issues, safety issues, and future prospects for these highly practical materials. Readers will also benefit from the inclusion of: A thorough introduction to epoxy composites, their synthesis and manufacturing, and micro- and nano-scale structure formation in

epoxy and clay nanocomposites An exploration of long fiber reinforced epoxy composites and eco-friendly epoxy-based composites Practical discussions of the processing of epoxy composites based on carbon nanomaterials and the thermal stability and flame retardancy of epoxy composites An analysis of the spectroscopy and X-ray scattering studies of epoxy composites Perfect for materials scientists, polymer chemists, and mechanical engineers, Epoxy Composites: Fabrication, Characterization and Applications will also earn a place in the libraries of engineering scientists working in industry and process engineers seeking a comprehensive and exhaustive resource on epoxy composites.

How to Write a Good Scientific Paper

CHRIS A. MACK 2018 Many scientists and engineers consider themselves poor writers or find the writing process

difficult. The good news is that you do not have to be a talented writer to produce a good scientific paper, but you do have to be a careful writer. In particular, writing for a peer-reviewed scientific or engineering journal requires learning and executing a specific formula for presenting scientific work. This book is all about teaching the style and conventions of writing for a peer-reviewed scientific journal. From structure to style, titles to tables, abstracts to author lists, this book gives practical advice about the process of writing a paper and getting it published.

Structures and Architecture - Bridging the Gap and Crossing

Borders Paulo J.S. Cruz 2019-07-08 Structures and Architecture - Bridging the Gap and Crossing Borders contains the lectures and papers presented at the Fourth International Conference on Structures

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August 8, 2022 by guest

and Architecture (ICSA2019) that was held in Lisbon, Portugal, in July 2019. It also contains a multimedia device with the full texts of the lectures presented at the conference, including the 5 keynote lectures, and almost 150 selected contributions. The contributions on creative and scientific aspects in the conception and construction of structures, on advanced technologies and on complex architectural and structural applications represent a fine blend of scientific, technical and practical novelties in both fields. ICSA2019 covered all major aspects of structures and architecture, including: building envelopes/façades; comprehension of complex forms; computer and experimental methods; futuristic structures; concrete and masonry structures; educating architects and structural engineers; emerging technologies;

glass structures; innovative architectural and structural design; lightweight and membrane structures; special structures; steel and composite structures; structural design challenges; tall buildings; the borderline between architecture and structural engineering; the history of the relationship between architects and structural engineers; the tectonic of architectural solutions; the use of new materials; timber structures, among others. This set of book and multimedia device is intended for a global readership of researchers and practitioners, including architects, structural and construction engineers, builders and building consultants, constructors, material suppliers and product manufacturers, and other professionals involved in the design and realization of architectural, structural and

infrastructural projects.
Handbook of Research on Nanoscience, Nanotechnology, and Advanced Materials
Bououdina, Mohamed
2014-03-31 The burgeoning field of nanotechnology has led to many recent technological innovations and discoveries. Understanding the impact of these technologies on business, science, and industry is an important first step in developing applications for a variety of settings and contexts. Handbook of Research on Nanoscience, Nanotechnology, and Advanced Materials presents a detailed analysis of current experimental and theoretical approaches surrounding nanomaterials science. With applications in fields such as biomedicine, renewable energy, and synthetic materials, the research in this book will provide experimentalists, professionals, students,

and academics with an in-depth understanding of nanoscience and its impact on modern technology.
Nature Sir Norman Lockyer 1896
1999 ISES Solar World Congress G. Grossman
2000-12-15 These volumes of Proceedings are the record of the 1999 ISES Solar World Congress, held in Jerusalem, Israel on the 45th Anniversary of the International Solar Energy Society. The Congress was held under the theme Solar is Renewable, adequately representing a meeting on the threshold of the 21st Century. The event also marks the 20th anniversary of the Israeli Section of ISES, founded in 1979 - the year ISES celebrated its Silver Jubilee. A business track under the title of Solar Means Business included presentations and discussions on market implementation of solar technology. The Congress further included two panel discussions and two workshops, dealing

with WIRE (World-wide Information System for Renewable Energy) and with IPMVP (International Performance Measurement. These proceeding consist of the Keynote Papers and presented papers.

Journal of Research of the National Bureau of Standards United States. National Bureau of Standards 1965

Fracture mechanics of concrete: Material characterization and testing Alberto Carpinteri 2012-12-06 In this volume on the mechanics of fracture of Portland cement concrete, the general theme is the connection between microstructural phenomena and macroscopic models. The issues addressed include techniques for observation over a wide range of scales, the influence of .microcracking on common measures of strength and de formability , and ultimately, the relationship between microstructural changes in concrete under load and its resistance to

cracking. It is now commonly accepted that, in past attempts to force-fit the behavior of concrete into the rules of linear elastic fracture mechanics, proper attention has not been paid to scale effects. Clearly, the relationships among specimen size, crack length and opening, and characteristic material fabric dimensions have been, in comparison to their counterparts in metals, ceramics, and rocks, abused in concrete. Without a fundamental understanding of these relationships, additional testing in search of the elusive, single measure of fracture toughness has spawned additional confusion and frustration. No one is in a better position to document this observation than Professor Mindess. Visibilities and Invisibilities in Smart Cities: Emerging Research and Opportunities McKenna, H. Patricia 2021-06-11

Throughout history, humanity has sought the betterment of its communities. In the 21st century, humanity has technology on its side in the process of improving its cities. Smart cities make their improvements by gathering real-world data in real time. Still, there are many complexities that many do not catch—they are invisible. It is important to understand how people make sense at the urban level and in extra-urban spaces of the combined complexities of invisibilities and visibilities in their environments, interactions, and infrastructures enabled through their own enhanced awareness together with aware technologies that are often embedded, pervasive, and ambient. This book probes the visible and invisible dimensions of emerging understandings of smart cities and regions in the context of more aware people interacting

with each other and through more aware and pervasive technologies. Visibilities and Invisibilities in Smart Cities: Emerging Research and Opportunities contributes to the research literature for urban theoretical spaces, methodologies, and applications for smart and responsive cities; the evolving of urban theory and methods for 21st century cities and urbanities; and the formulation of a conceptual framework for associated methodologies and theoretical spaces. This work explores the relationships between variables using a case study approach combined with an explanatory correlational design. It is based on an urban research study conducted from mid-2015 to mid-2020 that spanned multiple countries across three continents. The book is split into four sections: introduction to the concepts of visible and invisible, frameworks for understanding the

interplay of the two concepts, associated and evolving theory and methods, and extending current research as opportunities in smart city environments and regions. Covering topics including human geography, smart cities, and urban planning, this book is essential for urban planners, designers, city officials, community agencies, business managers and owners, academicians, researchers, and students, including those who work across multiple domains such as architecture, environmental design, human-computer interaction, human geography, information technology, sociology, and affective computing.

Hydro-Mechanical Coupling and Creep Behaviours of

Geomaterials Yanlin Zhao
2021-03-03

Nanocatalysts in Environmental

Applications Samira Bagheri 2018-02-09 This book presents a range of nanocatalysts, together

with their primary environmental applications and use in chemical production processes. In addition, it describes the nanomaterials used for catalysts and details their performance. The book introduces readers to the fundamentals and applications of nanocatalysis, synthesis, characterization, modification and application. Further topics include: landfill organic pollutant photodegradation; magnetic photocatalysis; synergistic effects on hydrogenated TiO₂; and photoinduced fusion of gold-semiconductor nanoparticles. A detailed explanation of the chemistry of nanostructures and the ability to control materials at the nano-scale rounds out the coverage. Given the central importance of research in nanotechnology and nanoscience for the development of new catalysts, the book offers a valuable source

of information for researchers and academics alike. It will also benefit industrial engineers and production managers who wish to understand the environmental impact of nanocatalysts.

Rational Transmitting Boundaries for Time-Domain Analysis of Dam-Reservoir Interaction

Benedikt Weber

2013-06-29 Most existing arch dams have been designed for seismic loading by static methods involving the use of seismic coefficients. Although there are no known examples of arch dams which have been seriously damaged by earthquakes, the need for more realistic seismic analyses is now well recognized, not only for new dams but especially in the context of the safety evaluation of existing dams. Fortunately, with the finite element method, engineers have a powerful tool for modeling the complex geometry and the nonlinear material

behavior of a dam. However, there is still a major complication in the analysis procedure, namely the interaction of the dam with the reservoir and with the foundation during an earthquake. Interaction is a wave propagation problem involving transmitting boundaries. The State of the Art in engineering practice is to neglect wave propagation by modeling the water as incompressible and the foundation as massless. More advanced analysis methods using compressible water and foundation with mass have been available for some time. However, these methods are restricted to linear models, because they work in the frequency domain. On the other hand, there are also advanced nonlinear models for dams, but they can only be used in the time domain, usually with simple transmitting boundaries. In this report, which is based on an a doctoral thesis, rigorous transmitting

boundaries in the time domain are developed which permit combining compressible water with n- linear dam behavior. The new numerical model is based on a systems-theory approach.

International Journal for Housing Science and Its Applications 2006

International Journal of Ethics 1903 Includes section "Book reviews."

Collision Actions on Structures Arnold C.Y. Yong 2022-09-14 This textbook covers the collision of a moving, falling or flying object on a rigid barrier or a structural element, and the transmission of the transient action to the rest of the structural system. It is the only up-to-date book on this under-researched topic that confronts engineers on a day-to-day basis. The book deals with a range of real-life engineering problems and focuses on the application of knowledge and skillsets from structural analysis and structural dynamics. Fundamental principles and concepts on

structural collision are first introduced, followed by their specific applications such as vehicular collision on bridge structures, boulder impact on rockfall barriers and collision by hail and windborne debris. Analytical solutions provided are in the form of closed-form expressions, which can be directly adopted in conventional manual calculations. The use of spreadsheets to simulate the dynamic response behaviour is also covered.

- The only standalone book covering the topic from a civil engineering perspective
- Practical guidance on real-life engineering problems, and use of computational and physical methods
- Conveys methodology validated experimentally

The book provides an excellent guide for practitioners and sets out fundamental principles for graduate students in civil, structural and mechanical engineering.

Innovations in Smart

Cities Applications Edition 2 Mohamed Ben Ahmed 2019-02-06 This book highlights cutting-edge research presented at the third installment of the International Conference on Smart City Applications (SCA2018), held in Tétouan, Morocco on October 10-11, 2018. It presents original research results, new ideas, and practical lessons learned that touch on all aspects of smart city applications. The respective papers share new and highly original results by leading experts on IoT, Big Data, and Cloud technologies, and address a broad range of key challenges in smart cities, including Smart Education and Intelligent Learning Systems, Smart Healthcare, Smart Building and Home Automation, Smart Environment and Smart Agriculture, Smart Economy and Digital Business, and Information Technologies and Computer Science, among others. In addition, various novel

proposals regarding smart cities are discussed. Gathering peer-reviewed chapters written by prominent researchers from around the globe, the book offers an invaluable instructional and research tool for courses on computer and urban sciences; students and practitioners in computer science, information science, technology studies and urban management studies will find it particularly useful. Further, the book is an excellent reference guide for professionals and researchers working in mobility, education, governance, energy, the environment and computer sciences.

Effective Teaching Strategies for Dyscalculia and Learning Difficulties in

Mathematics Marie-Pascale Noël 2022-03-29 Effective Teaching Strategies for Dyscalculia and Learning Difficulties in Mathematics provides an essential bridge between scientific research and

practical interventions with children. It unpacks what we know about the possible cognitive causation of mathematical difficulties in order to improve teaching and therefore learning. Each chapter considers a specific domain of children's numerical development: counting and the understanding of numbers, understanding of the base-10 system, arithmetic, word problem solving, and understanding rational numbers. The accessible guidance includes a literature review on each topic, surveying how each process develops in children, the difficulties encountered at that level by some pupils, and the intervention studies that have been published. It guides the reader step-by-step through practical guidelines of how to assess these processes and how to build an intervention to help children master them. Illustrated throughout with examples of

materials used in the effective interventions described, this essential guide offers deep understanding and effective strategies for developmental and educational psychologists, special educational needs and/or coordinators, and teachers working with children experiencing mathematical difficulties.

Structures and Architecture

Paulo J. da Sousa Cruz 2016-10-14
Although the disciplines of architecture and structural engineering have both experienced their own historical development, their interaction has resulted in many fascinating and delightful structures. To take this interaction to a higher level, there is a need to stimulate the inventive and creative design of architectural structures and to persuade architects and structural engineers to further collaborate in this process, exploiting together new concepts,

applications and challenges. This set of book of abstracts and full paper searchable CD-ROM presents selected papers presented at the 3rd International Conference on Structures and Architecture Conference (ICSA2016), organized by the School of Architecture of the University of Minho, Guimarães, Portugal (July 2016), to promote the synergy in the collaboration between the disciplines of architecture and structural engineering.

Sustainable Materials and Smart Practices

M. Vasudevan 2022-06-15

This book presents recent research on sustainable building materials and their various applications. Topics include such items as fiber reinforced concrete, the use of mineral admixtures. self-sensing cement composites, the use of nanomaterials for structural health monitoring and the production of geopolymer mortar. Keywords: Light Transmitting Concrete,

Self-Compacting Concrete, Light-Weight Concrete, Polymer Concrete, Porous Concrete, Eco-Friendly Building Material, Cement Composite, Geopolymer Composites, Sustainable Bricks, Cement, Sisal Fiber, Glass Fiber, Nanomaterials, Metakaoline, Fly Ash, Silica Fume, Rice Husk Ash, Oyster Shells, Bitumen, Sugarcane Bagasse Ash, Herbocrete, Waste Foundry Sand, Swell Pressure of Clay, Quarry Dust, Sensors, Topology Optimization, Soil Stabilization.

Emergent Research on Polymeric and Composite Materials

Somashekar, R. 2017-09-13 Innovative textile materials are used for numerous applications.

Understanding the properties of such materials is imperative to ensure proper utilization. Emergent Research on Polymeric and Composite Materials is an essential reference work featuring the latest scholarly research on the

synthesis, characterizations, and physico-chemical properties of textile materials. Including coverage on a range of topics such as nanomaterials, ceramics, and clays, this book is ideally designed for researchers, academicians, industries, and students seeking current research on emerging developments and applications of polymeric and composite materials.

International Journal of Children-in-Science and Technology 2003

Nature 1878

Strengthening Forensic Science in the United States National Research Council 2009-07-29

Scores of talented and dedicated people serve the forensic science community, performing vitally important work. However, they are often constrained by lack of adequate resources, sound policies, and national support. It is clear that change and advancements, both systematic and scientific, are needed

in a number of forensic science disciplines to ensure the reliability of work, establish enforceable standards, and promote best practices with consistent application. Strengthening Forensic Science in the United States: A Path Forward provides a detailed plan for addressing these needs and suggests the creation of a new government entity, the National Institute of Forensic Science, to establish and enforce standards within the forensic science community. The benefits of improving and regulating the forensic science disciplines are clear: assisting law enforcement officials, enhancing homeland security, and reducing the risk of wrongful conviction and exoneration. Strengthening Forensic Science in the United States gives a full account of what is needed to advance the forensic science disciplines, including upgrading of systems and

organizational structures, better training, widespread adoption of uniform and enforceable best practices, and mandatory certification and accreditation programs. While this book provides an essential call-to-action for congress and policy makers, it also serves as a vital tool for law enforcement agencies, criminal prosecutors and attorneys, and forensic science educators.

Computer Systems Science and Engineering 2005

Self-Sensing Concrete in Smart Structures Baoguo Han

2014-07-30 Concrete is the second most used building material in the world after water. The problem is that over time the material becomes weaker. As a response, researchers and designers are developing self-sensing concrete which not only increases longevity but also the strength of the material. Self-Sensing Concrete in Smart Structures provides researchers and designers with a guide

to the composition, sensing mechanism, measurement, and sensing properties of self-healing concrete along with their structural applications Provides a systematic discussion of the structure of intrinsic self-sensing concrete Compositions of intrinsic self-sensing concrete and processing of intrinsic self-sensing concrete Explains the sensing mechanism, measurement, and sensing properties of intrinsic self-sensing concrete

Waste Materials and By-Products in Concrete

Rafat Siddique 2007-11-13 The amount and variety of waste that humanity dumps in landfill sites is nothing short of a scandal, believes Rafat Siddique, of Deemed University in Patiala, India. Instead, we ought to be building new homes out of it! Siddique shows in this important book that many non-hazardous waste materials and by-products which are landfilled, can in fact

be used in making concrete and similar construction materials. *The Art of Structural Engineering* Alan Holgate 1997 Cable-nets, membrane roofs, and unique bridges are among the structures designed by Schlaich and his partners.

International Journal of Software Science and Computational

Intelligence Yingxu Wang 2010 The latest developments in computer science, theoretical software engineering, cognitive science, cognitive informatics, intelligence science, and the crystallization of accumulated knowledge by the fertilization of these areas, have led to the emergence of a transdisciplinary and convergence field known as software and intelligence sciences International Journal of Software Science and Computational Intelligence (IJSSCI) is a transdisciplinary, archived, and rigorously refereed journal that publishes and disseminates cutting-

edge research findings and technological developments in the emerging fields of software science and computational intelligence, as well as their engineering applications.

Dynamic Damage and Fragmentation David Edward Lambert 2019-01-03 Engineering structures may be subjected to extreme high-rate loading conditions, like those associated with natural disasters (earthquakes, tsunamis, rock falls, etc.) or those of anthropic origin (impacts, fluid-structure interactions, shock wave transmissions, etc.). Characterization and modeling of the mechanical behavior of materials under these environments is important in predicting the response of structures and improving designs. This book gathers contributions by eminent researchers in academia and government research laboratories on the latest advances in

the understanding of the dynamic process of damage, cracking and fragmentation. It allows the reader to develop an understanding of the key features of the dynamic mechanical behavior of brittle (e.g. granular and cementitious), heterogeneous (e.g. energetic) and ductile (e.g. metallic) materials.

International Journal of Sediment Research 1997

International Journal for Digital Art History: Issue 3, 2018 Liska Surkemper 2019-02-18 Art History is centrally concerned with a vast array of three-dimensional objects, such as sculptures, and spaces, such as architecture. Digital technologies allow the creation of virtual spaces, which in turn allow us to simulate and compare aspects of a visual culture's three-dimensional timespace that cannot be communicated as a single, still image. The third issue, thus, focusses on the third dimension in Art

History, and the digital realm that continues to mediate and transform it.

Journal of Research of the National Bureau of Standards 1967

Nanotechnology in Eco-efficient Construction

Fernando Pacheco-Torgal 2018-11-22 Covering the latest technologies, Nanotechnology in eco-efficient construction provides an authoritative guide to the role of nanotechnology in the development of eco-efficient construction materials and sustainable construction. The book contains a special focus on applications concerning concrete and cement, as nanotechnology is driving significant development in concrete technologies. The new edition has 14 new chapters, including 3 new parts: Mortars and concrete related applications; Applications for pavements and other structural materials; and Toxicity, safety

handling and environmental impacts. Civil engineers requiring an understanding of eco-efficient construction materials, as well as researchers and architects within any field of nanotechnology, eco-efficient materials or the construction industry will find this updated reference to be highly valuable. Addresses issues such as toxicity and LCA aspects New chapters covering safety handling on occupational exposure of nanoparticles and the assessment of personal exposure to airborne nanomaterials Discusses the effects of adding nano-particles on the durability and on the properties of geopolymers

Lunar Settlements Haym Benaroya 2010-02-12 Bringing together some of the most recognized and influential researchers and scientists in various space-related disciplines, Lunar Settlements addresses the many issues that

surround the permanent human return to the Moon. Numerous international contributors offer their insights into how certain technological, physiological, and psychological challenges must be met to make permanent lunar settlements possible. The book first looks to the past, covering the Apollo and Saturn legacies. In addition, former astronaut and U.S. Senator Harrison H. Schmitt discusses how to maintain deep space exploration and settlement. The book then discusses economic aspects, such as funding for lunar commerce, managing human resources, and commercial transportation logistics. After examining how cultural elements will fit into habitat design, the text explores the physiological, psychological, and ethical impact of living on a lunar settlement. It also describes the planning/technical

requirements of lunar habitation, the design of both manned and modular lunar bases, and the protection of lunar habitats against meteoroids. Focusing on lunar soil mechanics, the book concludes with discussions on lunar concrete, terraforming, and using greenhouses for agricultural purposes. Drawing from the lunar experiences of the six Apollo landing missions to the many American and Soviet robotic missions to current space activities and research, this volume summarizes the problems, prospects, and practicality of enduring lunar settlements. It reflects the key disciplines, including engineering, physics, architecture, psychology, biology, and anthropology, that will play significant roles in establishing these settlements.

Sustainability and Automation in Smart Constructions Hugo Rodrigues 2020-09-14
This book gathers outstanding papers

presented at the Conference on Automation Innovation in Construction (CIAC-2019). In recent years, there have been significant transformations in the construction sector regarding production and the use of computers and automation to create smart and autonomous systems. At the same time, innovative construction materials and alternative technologies are crucial to overcoming the challenges currently facing the building materials industry. The book presents numerous examples of smart construction technologies, discusses the applications of new construction materials and technologies, and includes studies on recent trends in automation as applied to the construction sector. *Research Handbook on Brand Co-Creation* Markovic, Stefan 2022-03-10
Bringing together different theoretical perspectives on brand co-creation and

discussing their practical applicability and ethical implications, this Research Handbook explores emerging notions of brand construction which view brands as co-created through collaborative efforts between multiple stakeholders.

Semiotics in Mathematics Education Norma Presmeg 2016-04-11 This volume discusses semiotics in mathematics education as an activity with a formal sign system, in which each sign represents something else. Theories presented by Saussure, Peirce, Vygotsky and other writers on semiotics are summarized in their relevance to the teaching and learning of mathematics. The significance of signs for mathematics education lies in their ubiquitous use in every branch of mathematics. Such use involves seeing the general in the particular, a process that is not always clear to learners. Therefore, in several traditional

frameworks, semiotics has the potential to serve as a powerful conceptual lens in investigating diverse topics in mathematics education research. Topics that are implicated include (but are not limited to): the birth of signs; embodiment, gestures and artifacts; segmentation and communicative fields; cultural mediation; social semiotics; linguistic theories; chains of signification; semiotic bundles; relationships among various sign systems; intersubjectivity; diagrammatic and inferential reasoning; and semiotics as the focus of innovative learning and teaching materials.

Advances in X-ray Tomography for Geomaterials

Jacques Desrues 2010-01-05 This book brings together a total of 48 contributions (including 5 keynote papers) which were presented at the 2nd International Workshop on the

Application of X-ray CT for Geomaterials (GeoX 2006) held in Aussois, France, on 4-7 October, 2006. The contributions cover a wide range of topics, from fundamental characterization of material behavior to applications in geotechnical and

geoenvironmental engineering. Recent advances of X-ray technology, hardware and software are also discussed. As such, this will be valuable reading for anyone interested in the application of X-ray CT to geomaterials from both fundamental and applied perspectives.