

Journal Of Building Engineering

Khotso Dithebe,Clinton Ohis Aigbavboa,Wellington Didibhuku Thwala,Bhaven Naik

Research in Building Physics and Building Engineering Paul Fazio,Hua Ge,Jiwu Rao,Guyline

Desmarais,2020-11-26 Buildings influence people. They account for one third of energy consumption across the globe and represent an annual capital expenditure of 7%-10% of GNP in industrialized countries. Their lifetime operation costs can exceed capital investment. Building Engineering aims to make buildings more efficient, safe and economical. One branch of this discipline, Building Physics/Science, has gained prominence, with a heightened awareness of such phenomena as sick buildings, the energy crisis and sustainability, and considering the performance of buildings in terms of climatic loads and indoor conditions. The book reflects the advanced level and high quality of research which Building Engineering, and Building Physics/Science in particular, have reached at the beginning of the twenty-first century. It will be a valuable resource to: engineers, architects, building scientists, consultants on the building envelope, researchers and graduate students.

Maintenance Engineering for Buildings Ntebo Ngcobo,Clinton Aigbavboa,Douglas Aghimien,2024-10-25 Maintenance Engineering for Buildings: Digital Solutions and Sustainable Practices offers a thorough body of knowledge on organizational frameworks, assessment models, and digital tools to carry out maintenance procedures aimed at keeping edifices and many other assets in the urban landscape not only in good working condition, but also compliant with regulatory safety requirements and environmental standards. As well as covering current research and the best practice in the field, the volume is enriched by a number of case studies taken from the educational sector which explore how recent developments and other trends from are being applied in different geographical and economic contexts.This reference work stands out for its invaluable relevance to audiences both in industry and academia, while also serving as an excellent reference resource for future works in the area. - Combines recent research concepts with real-world examples to facilitate understanding - Introduces industry 4.0 technological advancements to provide reliable actionable guidance - Includes case studies that illustrate the state of practice in both developed and developing countries - Focuses on 'green' maintenance strategies that are equally relevant to the public sector infrastructure as a whole

International Directory of Building Research Information and Development Organizations Studies and Documentation, International Council for Building Research,2006-01-16 Every entry follows a standard pattern: after the address and

telephone number of the institution there is a brief description of its history and financial support, followed by the names of the senior staff, total number of staff, the institution's structure and services, its main research programmes and a list of its publications. For this new edition a subject index has been added, allowing the reader to identify centres of research activity on individual construction topics throughout the world. The world-wide investment in construction industry research is enormous. This unique directory is a guidebook to that investment which will enable its readers to isolate sources of advice on practical problems, information on national standards and requirements and potential research collaborators.

Sustainable Concrete Materials and Structures Ashraf Ashour, Xinyue Wang, Baoguo Han, 2024-06-03 Sustainable Concrete Materials and Structures focuses on recent research progress and innovations in this important field of research. All aspects of the technical routes to sustainable concrete and structures are discussed in detail. These include recent findings on sustainable concrete production and structural design and construction. Low-carbon cement, sustainable concrete mix design, durability, and structural applications are discussed in detail. Emphasis is placed on how to bring some of the innovations in concrete technology closer to market. Information on techno-economic analysis, economy of scale, and the supply chain of sustainable concrete is also addressed. The book will be an essential reference resource for academic and industrial researchers working in civil engineering, material science, chemical engineering, and the development and manufacture of construction materials. - Provides a comprehensive collection of technical reviews on the latest advancements in sustainable concrete materials and structures - Presents state-of-the-art research on preparation, production, processing, and implementation techniques for sustainable concrete materials and structures - Features techno-economic analysis for each technology discussed - Covers lifecycle assessment, the Circular Economy and end of life of concrete structures - Includes industry case studies on implementation

9th International Conference on Mobility, IoT and Smart Cities Lucia Knapcikova, Shakib Zohrehvandi, 2023-04-20 This proceeding features papers from EAI Mobility IoT 2022 - the 9th International Conference on Mobility, IoT and Smart Cities, which took place December 15-16, 2022, Bratislava, Slovakia and online. The conference focuses on innovative technologies influencing industry and connectivity sectors in industrial, urban, social and sustainable development. The papers cover many topics in mobility, including car manufacturing, e-mobility, smart cities, smart factories (Industry 4.0), smart logistics, social mobility, technological innovations, sustainability, multicultural development, Internet of Things sectors, etc. The papers are applicable to researchers, academics, students, and professionals.

Structures and Architecture Mario Rinke, Marie Frier Hvejsel, 2025-06-23 Structures and Architecture - REstructure REmaterialize REthink REuse contains the contributions to the 6th International Conference on Structures and Architecture (ICSA 2025, Antwerp, Belgium, 8-11 July 2025). As a response to the pressing global climate and energy crisis, and with new settings and tools, the design and construction of our built environment needs reconsideration and extension. The papers call

for a re-imagination of current practices regarding structures and architecture. The volumes of the series are published every three years, in tandem with the conferences organised by the International Association of Structures and Architecture. They aim to reach a global audience of researchers, practitioners, and students, including architects, structural and construction engineers, builders and building consultants, constructors, material suppliers, planners, urban designers, anthropologists, economists, sociologists, artists, product manufacturers, and other professionals involved in the design and realisation of architectural, structural, and infrastructural projects.

Seismic Performance of Asymmetric Building Structures Chunwei Zhang,Zeshan Alam,Li Sun,Bijan

Samali,2020-05-07 Seismic Performance of Asymmetric Building Structures presents detailed investigations on the effective assessment of structural seismic response under excessive torsional vibrations, demonstrating behavioural aspects from local response perspective to global seismic demands. The work provides comprehensive analytical, computational, experimental investigations, and proposes improved design guidelines that structural engineers can utilize to enhance the seismic design of asymmetric building structures. Combining extensive experimental and numerical data stock for seismic performance assessment with a particular focus on asymmetric building structures, the book includes:

- An overview of asymmetric building structures from seismic damage perspective
- Local and global performance assessment of asymmetric structures under extreme seismic actions
- Post-earthquake damage evaluation from varying frequency trends
- Extended numerical applications for experimental response validations
- Evaluation of critical regions of asymmetric structure with stress concentration
- Statistical distribution of seismic response under varying design parameters
- Design guidelines for asymmetric building structures

This work's comprehensive evaluations are carried out with modern sensing techniques planned with meticulous attention to cover objectives with a particular focus on asymmetry in reinforced concrete and steel structures. It assesses various aspects of asymmetric building structures that are rarely dealt with in the current literature. It gathers fruitful information from various building design codes and explains their limitations in addressing damage-related challenges, which is not only useful for practicing engineers but also for academics. The book will be invaluable for experts, researchers, students and practitioners from relevant areas, as well as for emergency preparedness managers.

Life-Cycle Civil Engineering: Innovation, Theory and Practice Airong Chen,Xin Ruan,Dan M. Frangopol,2021-02-26

Life-Cycle Civil Engineering: Innovation, Theory and Practice contains the lectures and papers presented at IALCCE2020, the Seventh International Symposium on Life-Cycle Civil Engineering, held in Shanghai, China, October 27-30, 2020. It consists of a book of extended abstracts and a multimedia device containing the full papers of 230 contributions, including the Fazlur R. Khan lecture, eight keynote lectures, and 221 technical papers from all over the world. All major aspects of life-cycle engineering are addressed, with special emphasis on life-cycle design, assessment, maintenance and management of structures and infrastructure systems under various deterioration mechanisms due to various environmental hazards. It is

expected that the proceedings of IALCCE2020 will serve as a valuable reference to anyone interested in life-cycle of civil infrastructure systems, including students, researchers, engineers and practitioners from all areas of engineering and industry.

Toward Energy-Efficient Buildings Vivien Lin Lu,Xi Chen,Jianheng Chen,Kai Jiao,2025-02-17 Towards Energy-Efficient Buildings: Envelope Technologies and Sustainable Energy Systems examines the intersection of building design and energy systems analysis, paving the way to sustainable, efficient buildings and our communal energy future. This book begins by outlining the major energy challenges for buildings and the fundamentals and opportunities in envelope technology for their increasing the efficiency of their energy systems. Close analysis of various technologies is then carried out, including case studies and demonstrations of impact assessment techniques. The ways in which these technologies interact with energy systems within the building are drawn out and clarified for a range of readers. Finally, detailed guidance on energy system assessment and analysis is provided. Bringing together these two essential disciplines for sustainable living, Towards Energy-Efficient Buildings will support energy engineers, researchers, and students of energy systems in developing technologies for energy-efficient, sustainable buildings. - Breaks down the fundamentals of building envelope design for an energy-engineer readership - Includes a variety of case studies and practical technologies, with clear real-world impacts on building energy systems and management - Leads the reader through comprehensive assessment methodologies to analysis energy system outcomes and enable sustainable cities for the future

Sustainable Maintenance Strategies for Government Office Buildings in Emerging Economies Khotso Dithebe,Clinton Ohis Aigbavboa,Wellington Didibhuku Thwala,Bhaven Naik,2025-07-24 Sustainable Maintenance Strategies for Government Office Buildings in Emerging Economies provides an unambiguous perspective on thepractice requirements of maintenance management for public office buildings.

Thermal Evaluation of Indoor Climate and Energy Storage in Buildings Shailendra Kumar Shukla,2024-08-19 There is a need to reduce energy consumption for space cooling and heating via energy efficient solutions/technologies for implementation in the buildings. Thermal energy storage regulates indoor temperature, shifting the peak load to the off-peak hours and reducing the energy need for space cooling and heating. This book presents the most recent advances related to the thermal energy storage system design and integration in buildings. Additionally, modelling, application, synthetization, and characterization of energy efficient building materials are also considered. Features: Provides a deep understanding of thermal energy storage technology and summarizes its utility and feasibility that can be commercially implemented worldwide Covers recent advancements related to thermal energy storage system design and integration in buildings Discusses modelling, application, synthetization, and characterization of energy-efficient building materials Details novel and emerging heat storage materials and their application to energy and environmental processes Highlights the need for future

research on building comfort in cooling, heating, and ventilation through a green energy perspective This book is aimed at researchers and graduate students in mechanical, renewable energy, and HVAC engineering.

Construction 4.0 Marco Casini, 2021-11-24 Developments in data acquisition technologies, digital information and analysis, automated construction processes, and advanced materials and products have finally started to move the construction industry - traditionally reluctant to innovation and slow in adopting new technologies - toward a new era. Massive changes are occurring because of the possibilities created by Building information modeling, Extended reality, Internet of Things, Artificial intelligence and Machine Learning, Big data, Nanotechnology, 3D printing, and other advanced technologies, which are strongly interconnected and are driving the capabilities for much more efficient construction at scale. Construction 4.0: Advanced Technology, Tools and Materials for the Digital Transformation of the Construction Industry provides readers with a state-of-the-art review of the ongoing digital transformation of the sector within the new 4.0 framework, presenting a thorough investigation of the emerging trends, technologies, and strategies in the fields of smart building design, construction, and operation and providing a comprehensive guideline on how to exploit the new possibilities offered by the digital revolution. It will be an essential reference resource for academic researchers, material scientists and civil engineers, undergraduate and graduate students, and other professionals working in the field of smart ecoefficient construction and cutting-edge technologies applied to construction. - Provides an overview of the Construction 4.0 framework to address the global challenges of the building sector in the 21st century and an in-depth analysis of the most advanced digital technologies and systems for the operation and maintenance of infrastructure, real estate, and other built assets - Covers major innovations across the value chain, including building design, fabrication, construction, operation and maintenance, and end-of-life - Illustrates the most advanced digital tools and methods to support the building design activity, including generative design, virtual reality, and digital fabrication - Presents a thorough review of the most advanced construction materials, building methods, and techniques for a new connected and automated construction model - Explores the digital transformation for smart energy buildings and their integration with emerging smart grids and smart cities - Reflects upon major findings and identifies emerging market opportunities for the whole AECO sector

Recent Developments of Geopolymer Materials Mohd Mustafa Al Bakri Abdullah, Rafiza Binti Abd Razak, Wan Mastura Binti Wan Ibrahim, Mohd Arif Anuar Mohd Salleh, 2024-09-15 Recent Developments of Geopolymer Materials: Processing and Characterisations focuses on the development, processing, and characterization of sustainable and eco-friendly materials, highlighting recent research developments in this field. The book covers the processing and characterization of geopolymers, incorporating green materials from waste and recycled materials specifically for construction applications, as well as advanced processing and characterization for a wide variety of applications. The book provides in-depth chapters on the development, processing, and characterization of sustainable and green materials with extensive uses, such as

construction. It is divided into two sections: Development of Geopolymer Materials for Construction Applications and Advanced Processing and Characterization for Wider Applications, and will be a useful resource for academics, engineers, companies, and stakeholders in geopolymers from green materials for a variety of wide applications, including construction materials, ceramics, adsorbents, drilling properties, and simulation analysis. - Provides new knowledge and the latest technology and research relating to the processing and characterization of geopolymers incorporating green materials from waste and recycled materials - Covers the latest research on variety of wide applications, including construction materials, ceramics, adsorbents, drilling properties, and simulation analysis - Includes in-depth coverage of the benefits of geopolymer technology

Disrupting Buildings Theo Lynn, Pierangelo Rosati, Mohamad Kassem, Stelios Krinidis, Jennifer Kennedy, 2023-07-29 The world's extant building stock accounts for a significant portion of worldwide energy consumption and greenhouse gas emissions. In 2020, buildings and construction accounted for 36% of global final energy consumption and 37% of energy related CO2 emissions. The EU estimates that up to 75% of the EU's existing building stock has poor energy performance, 85-95% of which will still be in use in 2050. To meet the goals of the Paris Agreement on Climate Change will require a transformation of construction processes and deep renovation of the extant building stock. It is widely recognized that ICTs can play an important role in construction, renovation and maintenance as well as supporting the financing of deep renovation. Technologies such as sensors, big data analytics and machine learning, BIM, digital twinning, simulation, robots, cobots and UAVs, and additive manufacturing are transforming the deep renovation process, improving sustainability performance, and developing new services and markets. This open access book defines a deep renovation digital ecosystem for the 21st century, providing a state-of-the art review of current literature, suggesting avenues for new research, and offering perspectives from business, technology and industry domains. This is an open access book.

Proceedings of the 5th International Conference on Building Energy and Environment Liangzhu Leon Wang, Hua Ge, Zhiqiang John Zhai, Dahai Qi, Mohamed Ouf, Chanjuan Sun, Dengjia Wang, 2023-09-04 This book is a compilation of selected papers from the 5th International Conference on Building Energy and Environment (COBEE2022), held in Montreal, Canada, in July 2022. The work focuses on the most recent technologies and knowledge of building energy and the environment, including health, energy, urban microclimate, smart cities, safety, etc. The contents make valuable contributions to academic researchers, engineers in the industry, and regulators of buildings. As well, readers encounter new ideas for achieving healthy, comfortable, energy-efficient, resilient, and safe buildings.

Recent Developments and Innovations in the Sustainable Production of Concrete Afzal Husain Khan, Mohammad Nadeem Akhtar, Khaldoun A. Bani-Hani, 2024-11-18 Recent Developments and Innovations in the Sustainable Production of Concrete covers the various aspects of sources, materials, and waste products in concrete production, innovation in materials-new

technological developments, and the upgradation of existing concrete production systems. Importantly, it covers the so-called EEE aspects (Economy, Energy, and Environment), not touched by other books. The books also highlights the sustainability aspects of concrete production when recycled materials are added. Case studies are used to demonstrate the practical aspect of concrete production, including the machine learning approach. - Includes coverage of sources, materials, and waste products in concrete production - Provides an overview of the economic, energy, and environment aspects in concrete production - Shows how machine learning can be used in concrete construction

Advances in Geopolymers ,2025-04-10 Globalization generates a large amount of waste that significantly affects storage areas and the surrounding environment. At the same time, in the civil engineering section of producing cement, the CO₂ emissions made this problem very important. Therefore, the need for green materials with lower exploitation costs and natural resource consumption became primary. Alternative binder systems, such as alkali-activated materials, including geopolymers as a subclass, have demonstrated significant potential in recent years as a more sustainable alternative to ordinary Portland cement concrete. This book joins the activities and knowledge of researchers from multiple fields to present a comprehensive overview of the advances in the synthesis and characterization of geopolymers, including developed mix design, the performance of natural fiber reinforcement and foaming materials, and cases of civil and environmental engineering application.

Symbiotic Intelligence Hua Chai,Ding Wen Nic Bao,Zhe Guo,Philip F. Yuan,2025-05-03 This open access book is a compilation of selected papers from The 6th International Conference on Computational Design and Robotic Fabrication (CDRF 2024). The work focuses on novel techniques for computational design and robotic fabrication. The contents make valuable contributions to academic researchers, designers, and engineers in the industry. Also, readers will encounter new ideas about understanding symbiotic intelligence in architecture.

The Elgar Companion to the Built Environment and the Sustainable Development Goals Alex Opoku,2024-02-12 Exploring the link between Sustainable Development Goals (SDGs) and the built environment, this erudite Companion provides a comprehensive overview and critical examination of key topics and complex research issues. Structured around the 5Ps of the SDGs - people, planet, prosperity, peace, and partnerships - the Companion suggests potential routes for the future direction of research within this multidisciplinary field of study.

Interpretable Machine Learning for the Analysis, Design, Assessment, and Informed Decision Making for Civil Infrastructure M. Z. Naser,2023-10-18 The past few years have demonstrated how civil infrastructure continues to experience an unprecedented scale of extreme loading conditions (i.e. hurricanes, wildfires and earthquakes). Despite recent advancements in various civil engineering disciplines, specific to the analysis, design and assessment of structures, it is unfortunate that it is common nowadays to witness large scale damage in buildings, bridges and other infrastructure. The

analysis, design and assessment of infrastructure comprises of a multitude of dimensions spanning a highly complex paradigm across material sciences, structural engineering, construction and planning among others. While traditional methods fall short of adequately accounting for such complexity, fortunately, computational intelligence presents novel solutions that can effectively tackle growing demands of intense extreme events and modern designs of infrastructure – especially in this era where infrastructure is reaching new heights and serving larger populations with high social awareness and expectations. Computational Intelligence for Analysis, Design and Assessment of Civil Infrastructure highlights the growing trend of fostering the use of CI to realize contemporary, smart and safe infrastructure. This is an emerging area that has not fully matured yet and hence the book will draw considerable interest and attention. In a sense, the book presents results of innovative efforts supplemented with case studies from leading researchers that can be used as benchmarks to carryout future experiments and/or facilitate development of future experiments and advanced numerical models. The book is written with the intention to serve as a guide for a wide audience including senior postgraduate students, academic and industrial researchers, materials scientists and practicing engineers working in civil, structural and mechanical engineering.

- Presents the fundamentals of AI/ML and how they can be applied in civil and environmental engineering
- Shares the latest advances in explainable and interpretable methods for AI/ML in the context of civil and environmental engineering
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