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Current Trends in Civil Engineering Job Thomas
2020-11-20 This book comprises the select
proceedings of the International Conference on
Recent Advances in Civil Engineering (ICRACE)

2020, held at the Cochin University of Science and
Technology, Cochin, Kerala, India. The book focuses
on latest research in different areas of civil
engineering and lays special emphasis on sustainable
construction practices. It is divided into seven major

themes: (i) Modern materials and sustainable construction, (ii) Environmental engineering and management, (iii) Geotechnical engineering, (iv) Health, safety and environment, (v) Irrigation, water resources and management, (vi) Structural Engineering, and (vii) Transportation engineering and traffic planning. Given the range of the topics covered, this book can be useful for students, scholars and professionals interested in the different sub-disciplines of civil engineering.

Pavement Mechanics Eyal Levenberg 2020-10-06
This book introduces purely mechanistic models that are of particular relevance to the pavement engineering profession. It commences with a short recap of basic mechanics concepts, and then delves into topics such as viscoelasticity, elastic half-space solutions, and mechanics of supported plates. Given that all pavement design and analysis approaches are founded on some mechanistic logic, the text

essentially offers a universal and long-lasting reference to practitioners and engineering students. GCEC 2017 Biswajeet Pradhan 2018-05-12 This book gathers the proceedings of the 1st Global Civil Engineering Conference, GCEC 2017, held in Kuala Lumpur, Malaysia, on July 25–28, 2017. It highlights how state-of-the-art techniques and tools in various disciplines of Civil Engineering are being applied to solve real-world problems. The book presents interdisciplinary research, experimental and/or theoretical studies yielding new insights that will advance civil engineering methods. The scope of the book spans the following areas: Structural, Water Resources, Geotechnical, Construction, Transportation Engineering and Geospatial Engineering applications.

Lecture Notes on Impedance Spectroscopy Olfa Kanoun 2013-11-18 Impedance Spectroscopy is a powerful measurement method used in many

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application fields such as electrochemistry, material science, biology and medicine, semiconductor industry and sensors. Using the complex impedance at various frequencies increases the informational basis that can be gained during a measurement. It helps to separate different effects that contribute to a measurement and, together with advanced mathematical methods, non-accessible quantities can be calculated. This book is the fourth in the series Lecture Notes on Impedance Spectroscopy (LNIS). The series covers new advances in the field of impedance spectroscopy including fundamentals, methods and applications. It releases scientific contributions from the International Workshop on Impedance Spectroscopy (IWIS) as extended chapters including detailed information about recent scientific research results. This book is of interest to graduated students, engineers, researchers and specialists dealing with impedance spectroscopy. It

includes fundamentals of impedance spectroscopy as well as specific theoretical and practical aspects from many applications in various fields."

Transportation Research Tom V. Mathew
2019-10-24 This book presents selected papers from the 4th Conference of the Transportation Research Group of India. It provides a comprehensive analysis of themes spanning the field of transportation encompassing economics, financial management, social equity, green technologies, operations research, big data analysis, econometrics and structural mechanics. This volume will be of interest to researchers, educators, practitioners, managers, and policy-makers world-wide.

18th International Probabilistic Workshop José C. Matos 2021-05-07 This volume presents the proceedings of the 18th International Probabilistic Workshop (IPW), which was held in Guimarães, Portugal in May 2021. Probabilistic methods are

currently of crucial importance for research and developments in the field of engineering, which face challenges presented by new materials and technologies and rapidly changing societal needs and values. Contemporary needs related to, for example, performance-based design, service-life design, life-cycle analysis, product optimization, assessment of existing structures and structural robustness give rise to new developments as well as accurate and practically applicable probabilistic and statistical engineering methods to support these developments. These proceedings are a valuable resource for anyone interested in contemporary developments in the field of probabilistic engineering applications.

Proceedings of AICCE'19 Fadzli Mohamed Nazri 2019-11-28 This book gathers the latest research, innovations, and applications in the field of civil engineering, as presented by leading national and

international academics, researchers, engineers, and postgraduate students at the AWAM International Conference on Civil Engineering 2019 (AICCE'19), held in Penang, Malaysia on August 21-22, 2019.

The book covers highly diverse topics in the main fields of civil engineering, including structural and earthquake engineering, environmental engineering, geotechnical engineering, highway and transportation engineering, water resources engineering, and geomatic and construction management. In line with the conference theme, “Transforming the Nation for a Sustainable Tomorrow”, which relates to the United Nations’ 17 Global Goals for Sustainable Development, it highlights important elements in the planning and development stages to establish design standards beneficial to the environment and its surroundings. The contributions introduce numerous exciting ideas that spur novel research directions and foster

multidisciplinary collaborations between various specialists in the field of civil engineering.

Advances in Civil Engineering Materials Ar Meor Mohammad Fared Bin Meor Razali 2021-04-29 This book presents selected articles from the 4th International Conference on Architecture and Civil Engineering 2020, held in Kuala Lumpur, Malaysia. Written by leading researchers and industry professionals, the papers highlight recent advances and address the current issues in the fields of civil engineering and architecture.

New Technologies in Building and Construction David Bienvenido-Huertas 2022-06-16 This book presents contributions on new technologies in building and construction. Buildings are complex elements that impact environment significantly. The sustainability of this sector requires a holistic and multidisciplinary approach that allows adequate strategies to be established to reduce its

environmental impact. This heterogeneity is represented in these chapters, which have been developed by researchers from different countries. The book is divided into three sections: (i) analysis, (ii) design and modeling, and (iii) solutions. The book chapters together represent an advance in current knowledge about new technologies in building and construction, crucial for researchers, engineers, architects, policy makers, and stakeholders.

Artificial Intelligence in Construction Engineering and Management Limao Zhang 2021-06-18 This book highlights the latest technologies and applications of Artificial Intelligence (AI) in the domain of construction engineering and management. The construction industry worldwide has been a late bloomer to adopting digital technology, where construction projects are predominantly managed with a heavy reliance on

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the knowledge and experience of construction professionals. AI works by combining large amounts of data with fast, iterative processing, and intelligent algorithms (e.g., neural networks, process mining, and deep learning), allowing the computer to learn automatically from patterns or features in the data. It provides a wide range of solutions to address many challenging construction problems, such as knowledge discovery, risk estimates, root cause analysis, damage assessment and prediction, and defect detection. A tremendous transformation has taken place in the past years with the emerging applications of AI. This enables industrial participants to operate projects more efficiently and safely, not only increasing the automation and productivity in construction but also enhancing the competitiveness globally.

Sustainable Civil Engineering Practices Varinder S. Kanwar 2020-04-30 This book comprises select

proceedings of the International Conference on Sustainable Civil Engineering Practices (ICSCEP 2019). It covers several important aspects of sustainable civil engineering practices dealing with effective waste and material management, natural resources, industrial products, energy, food, transportation and shelter, while conserving and protecting the environmental quality and the natural resource base essential for future development. The book also discusses engineering solutions to sustainable development and green design issues. Special emphasis is given on qualitative guidelines for generation, treatment, handling, transport, disposal and recycling of wastes. The book is intended as a practice-oriented reference guide for researchers and practitioners, and will be useful for all working in sustainable civil engineering related fields.

Advances in Construction Materials and Sustainable
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Environment Ashok Kumar Gupta

Proceedings of the 5th International Conference on Sustainable Civil Engineering Structures and Construction Materials Sheila Belayutham

2022-04-07 This book compiles papers presented during the 5th International Conference on Sustainable Civil Engineering Structures and Construction Materials (SCESCM) held virtually in December 2020. This is the fifth edition of this conference series; the theme for the 5th SCESCM is “Transforming the World, Foster the Sustainable Development Goals (SDGs),” and it focuses on various issues, novel findings, as well as developments in the area of civil and infrastructure, conforming to the SDGs. This book caters to postgraduate students, researchers, and practitioners involved in advocating and embedding sustainability in various phases of design, construction and maintenance of civil engineering

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structures and infrastructure facilities.

Ground Improvement and Reinforced Soil Structures C. N. V. Satyanarayana Reddy

2021-07-27 This volume comprises the select proceedings of the Indian Geotechnical Conference (IGC) 2020. The contents focus on recent developments in geotechnical engineering for sustainable tomorrow. The volume covers the topics related advances in ground improvement of weak foundation soils for various civil engineering projects and design/construction of reinforced soil structures with different fill materials using synthetic and natural reinforcements in different forms.

Proceedings of STCCE 2021 Nikolai Vatin

2021-06-28 This book gathers selected contributions in the field of civil and construction engineering, as presented by international researchers and engineers at the 2nd International Scientific

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Conference on Socio-Technical Construction and Civil Engineering (STCCE), held in Kazan, Russia on April 21-28 2021. The book covers a wide range of topics including building constructions and structures, bridges, roads and tunnels, building materials and products, construction management, energy efficiency and thermal protection of buildings, ventilation, air conditioning, gas supply and lighting in buildings, innovative and smart technologies in construction, sustainable development, transport system development. The contributions, which were selected by means of a rigorous international peer-review process, highlight numerous exciting ideas that will spur novel research directions and foster multidisciplinary collaborations.

Proceedings of CEE 2019 Zinoviy Blikharskyy
2019-08-08 This book gathers the latest advances, innovations, and applications in the field of effective

methods of calculation, resource-saving technologies and advanced materials in civil and environmental engineering, as presented by leading international researchers and engineers at the XVII International Scientific Conference Current Issues of Civil and Environmental Engineering “Lviv- Košice – Rzeszów”, held in Lviv, Ukraine on September 11-13, 2019. It covers highly diverse topics, including structural shaping and optimization; aspects of structural behavior and modeling; advanced analysis methods; experimental tests and numerical simulations; design codes, in particular Eurocodes and other national and regional limit state codes; and highway and bridges engineering. It also discusses modern architectural and structural solutions; innovative materials and products; durability and maintenance; fabrication and erection; sustainability in construction; renewable energy sources; heat, gas and water supply;

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ventilation and air-conditioning; ecological and energy-saving technologies, modern water-purification and treatment technologies; and the protection of water ecosystems. The contributions, which were selected by means of a rigorous international peer-review process, highlight numerous exciting ideas that will spur novel research directions and foster multidisciplinary collaborations.

Proceedings of EECE 2020 Nikolai Vatin 2021-03-26

This book gathers the latest advances, innovations, and applications in the field of energy, environmental and construction engineering, as presented by international researchers and engineers at the International Scientific Conference Energy, Environmental and Construction Engineering, held in St. Petersburg, Russia on November 19-20, 2020. It covers highly diverse topics, including BIM; bridges, roads and tunnels;

building materials; energy efficient and green buildings; structural mechanics; fluid mechanics; measuring technologies; environmental management; power consumption management; renewable energy; smart cities; and waste management. The contributions, which were selected by means of a rigorous international peer-review process, highlight numerous exciting ideas that will spur novel research directions and foster multidisciplinary collaborations.

Proceedings of SECON'21 Giuseppe Carlo Marano 2021 This book gathers peer-reviewed contributions presented at the International Conference on Structural Engineering and Construction Management (SECON'21), held on 12-15 May 2021. The meeting served as a fertile platform for discussion, sharing sound knowledge and introducing novel ideas on issues related to sustainable construction and design for the future.

The respective contributions address various aspects of numerical modeling and simulation in structural engineering, structural dynamics and earthquake engineering, advanced analysis and design of foundations, BIM, building energy management, and technical project management. Accordingly, the book offers a valuable, up-to-date tool and essential overview of the subject for scientists and practitioners alike, and will inspire further investigations and research. .

Advances in Structural Engineering K. V. L. Subramaniam 2020-05-13 This book contains selected papers in the area of structural engineering from the proceedings of the conference, Futuristic Approaches in Civil Engineering (FACE) 2019. In the area of construction materials, the book covers high quality research papers on raw materials and manufacture of cement, mixing, rheology and hydration, admixtures, characterization techniques

and modeling, fiber-reinforced concrete, repair and retrofitting of concrete structures, novel testing techniques such as digital image correlation (DIC). Research on sustainable building materials like Geopolymer concrete and recycled aggregates are covered. In the area of earthquake engineering, papers related to the seismic response of load-bearing unreinforced masonry walls, reinforced concrete frame and buildings with dampers are covered. Additionally, there are chapters on structures subjected to vehicular impact and fire. The contents of this book will be useful for graduate students, researchers and practitioners working in the areas of concrete, earthquake and structural engineering.

Proceedings of SECON'19 Kaustubh Dasgupta 2019-12-17 This book gathers peer-reviewed contributions presented at the 3rd National Conference on Structural Engineering and

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Construction Management (SECON'19), held in Angamaly, Kerala, India, on 15-16 May 2019. The meeting served as a fertile platform for discussion, sharing sound knowledge and introducing novel ideas on issues related to sustainable construction and design for the future. The respective contributions address various aspects of numerical modeling and simulation in structural engineering, structural dynamics and earthquake engineering, advanced analysis and design of foundations, BIM, building energy management, and technical project management. Accordingly, the book offers a valuable, up-to-date tool and essential overview of the subject for scientists and practitioners alike, and will inspire further investigations and research.

Advances in Water Resources Engineering and Management Rafid AlKhaddar 2019-06-26

This book comprises select papers presented at the International Conference on Trends and Recent

Advances in Civil Engineering (TRACE 2018). The book covers inter-disciplinary research and applications in integrated water resource management, river ecology, irrigation system, water pollution and treatment, hydraulic structure and hydro-informatics. The topics on water resource management include technological intervention and solution for climate change impacts on water resources, water security, clean water to all, sustainable water reuse, flood risk assessment, interlinking of rivers and hydro policy. The contents of this book will be useful to researchers and professionals working in the field of water resource management and related policy making.

Urban Science and Engineering Arnab Jana

2021-03-17 p="" This book comprises select proceedings of the First International Conference on Urban Science and Engineering. The focus of the conference was on the milieu of urban planning.

while applying technology which ensures better urban life, coupled with sensitivity to depleting natural resources and focus on sustainable development. The contents focus on sustainable infrastructure, mobility and planning, urban water and sanitization, green construction materials, optimization and innovation in structural design, and more. This book aims to provide up-to-date and authoritative knowledge from both industrial and academic worlds, sharing best practice in the field of urban science and engineering. This book is beneficial to students, researchers, and professionals working in the field of smart materials and sustainable development. ^

Proceedings of the Second International Conference of Construction, Infrastructure, and Materials Han Ay Lie 2022 This book comprises selected proceedings of the 2nd International Conference of Construction, Infrastructure, and Materials (ICCIM

2021) focusing on topics such as structural engineering, construction materials, geotechnical engineering, transportation system and engineering, construction management, water resources engineering, and infrastructure development. Its content will be useful to researchers, educators, practitioners, and policymakers alike.

Civil Engineering Drawing Serap Akkan 1993
Probabilistic Design: Risk and Reliability Analysis in Civil Engineering 2015

Seismic Design and Performance T.G. Sitharam 2021-03-26 This volume presents select papers presented at the 7th International Conference on Recent Advances in Geotechnical Earthquake Engineering and Soil Dynamics. The papers discuss advances in the fields of soil dynamics and geotechnical earthquake engineering. Some of the themes include seismic design of deep & shallow

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foundations, soil structure interaction under dynamic loading, marine structures, etc. A strong emphasis is placed on connecting academic research and field practice, with many examples, case studies, best practices, and discussions on performance based design. This volume will be of interest to researchers and practicing engineers alike.

Smart Technologies for Sustainable Development

Sanjay Kumar Shukla 2020-10-13 This book presents select papers from the International Conference on Smart Materials and Techniques for Sustainable Development (SMTS) 2019. The contents focus on a wide range of methods and techniques related to sustainable development fields like smart structures and materials, innovation in water resource development, optical fiber communication, green construction materials, optimization and innovation in structural design, structural dynamics and

earthquake engineering, structural health monitoring, nanomaterials, nanotechnology and sensors, smart biomaterials and medical devices, materials for energy conversion and storage devices, and IoT in sustainable development. This book aims to provide up-to-date and authoritative knowledge from both industrial and academic worlds, sharing best practice in the field of smart materials analysis. The contents of this book will be beneficial to students, researchers, and professionals working in the field of smart materials and sustainable development.

Sustainable Construction and Building Materials

Bibhuti Bhusan Das 2019-02-01 This book presents select proceedings of the International Conference on Sustainable Construction and Building Materials (ICSCBM 2018), and examines a range of durable, energy-efficient, and next-generation construction and building materials produced from industrial

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wastes and byproducts. The topics covered include alternative, eco-friendly construction and building materials, next-generation concretes, energy efficiency in construction, and sustainability in construction project management. The book also discusses various properties and performance attributes of modern-age concretes including their durability, workability, and carbon footprint. As such, it offers a valuable reference for beginners, researchers, and professionals interested in sustainable construction and allied fields.

Road and Airfield Pavement Technology H. R.

Pasindu 2022-03-22 This volume gathers the latest advances, innovations, and applications in the field of pavement technology, presented at the 12th International Conference in Road and Airfield Pavement Technology (ICPT), hosted by the University of Moratuwa, Sri Lanka, and held on July 14-16, 2021. It covers topics such as pavement

design, evaluation and construction, pavement materials characterization, sustainability in pavement engineering, pavement maintenance and rehabilitation techniques, pavement management systems and financing, transportation safety, law and enforcement related to pavement engineering, pavement drainage and erosion control, GIS applications, quarry material assessment, pavement instrumentation, IT and AI applications in pavement. Featuring peer-reviewed contributions by leading international researchers and engineers, the book is a timely and highly relevant resource for materials scientists and engineers interested in pavement engineering.

XXX Russian-Polish-Slovak Seminar Theoretical Foundation of Civil Engineering (RSP 2021) Pavel

Akimov

Sustainable Building Materials and Construction B.

Kondraivendhan 2022-05-14 This book presents the
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select proceedings of the International Conference on Sustainable Building Materials and Construction (ICSBMC 2021), and examines a range of durable, energy-efficient, advance construction and building materials produced from industrial wastes and byproducts. The topics covered include advanced construction materials, durability of concrete structures, waste utilization, repair & rehabilitation of concrete structures, structural analysis & design, composites, nanomaterials and smart materials in seismic engineering. The book also discusses various properties and performance attributes of modern-age concretes including their strength, durability, workability, and carbon footprint. This book will be a precious reference for beginners, researchers, and professionals interested in sustainable construction and allied fields.

Proceedings of the Indian Geotechnical Conference 2019 Satyajit Patel 2021-04-22 This book comprises

select proceedings of the annual conference of the Indian Geotechnical Society. The conference brings together research and case histories on various aspects of geotechnical and geoenvironmental engineering. The book presents papers on geotechnical applications and case histories, covering topics such as (i) Characterization of Geomaterials and Physical Modelling; (ii) Foundations and Deep Excavations; (iii) Soil Stabilization and Ground Improvement; (iv) Geoenvironmental Engineering and Waste Material Utilization; (v) Soil Dynamics and Earthquake Geotechnical Engineering; (vi) Earth Retaining Structures, Dams and Embankments; (vii) Slope Stability and Landslides; (viii) Transportation Geotechnics; (ix) Geosynthetics Applications; (x) Computational, Analytical and Numerical Modelling; (xi) Rock Engineering, Tunnelling and Underground Constructions; (xii) Forensic Geotechnical Engineering and Case

Studies; and (xiii) Others Topics: Behaviour of Unsaturated Soils, Offshore and Marine Geotechnics, Remote Sensing and GIS, Field Investigations, Instrumentation and Monitoring, Retrofitting of Geotechnical Structures, Reliability in Geotechnical Engineering, Geotechnical Education, Codes and Standards, and other relevant topics. The contents of this book are of interest to researchers and practicing engineers alike.

10th International Conference on FRP Composites in Civil Engineering Alper Ilki 2021-11-26 This volume highlights the latest advances, innovations, and applications in the field of FRP composites and structures, as presented by leading international researchers and engineers at the 10th International Conference on Fibre-Reinforced Polymer (FRP) Composites in Civil Engineering (CICE), held in Istanbul, Turkey on December 8-10, 2021. It covers a diverse range of topics such as All FRP structures;

Bond and interfacial stresses; Concrete-filled FRP tubular members; Concrete structures reinforced or pre-stressed with FRP; Confinement; Design issues/guidelines; Durability and long-term performance; Fire, impact and blast loading; FRP as internal reinforcement; Hybrid structures of FRP and other materials; Materials and products; Seismic retrofit of structures; Strengthening of concrete, steel, masonry and timber structures; and Testing. The contributions, which were selected by means of a rigorous international peer-review process, present a wealth of exciting ideas that will open novel research directions and foster multidisciplinary collaboration among different specialists.

Nonlinear Dynamics of Structures Sergio Oller 2014-09-04 This book lays the foundation of knowledge that will allow a better understanding of nonlinear phenomena that occur in structural

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dynamics. This work is intended for graduate engineering students who want to expand their knowledge on the dynamic behavior of structures, specifically in the nonlinear field, by presenting the basis of dynamic balance in non-linear behavior structures due to the material and kinematics mechanical effects. Particularly, this publication shows the solution of the equation of dynamic equilibrium for structure with nonlinear time-independent materials (plasticity, damage and frequencies evolution), as well as those time dependent non-linear behavior materials (viscoelasticity and viscoplasticity). The convergence conditions for the non-linear dynamic structure solution are studied and the theoretical concepts and its programming algorithms are presented.

Modern Applications of Geotechnical Engineering and Construction Mahdi O. Karkush 2020-12-21 p=""

This book contains select papers from the International Conference on Geotechnical Engineering Iraq discussing the challenges, opportunities, and problems of application of geotechnical engineering in projects. The contents cover a wide spectrum of themes in geotechnical engineering, including but not limited to sustainability & geotechnical engineering, modeling of foundations & slope stability, seismic analysis & soil mechanics, construction materials, and construction & management of projects. This volume will prove a valuable resource for practicing engineers and researchers in the field of geotechnical engineering, structural engineering, and construction and management of projects. ^

Advances in Sustainable Construction Materials
Sabyasachi Biswas 2021-04-10 This book presents select proceedings of National Conference on Advances in Sustainable Construction Materials

(ASCM 2020) and examines a range of durable, energy-efficient, and next-generation construction materials produced from industrial wastes and by-products. The topics covered include sustainable materials and construction, innovations in recycling concrete, green buildings and innovative structures, utilization of waste materials in construction, geopolymer concrete, self-compacting concrete by using industrial waste materials, nanotechnology and sustainability of concrete, environmental sustainability and development, recycling solid wastes as road construction materials, emerging sustainable practices in highway pavements construction, plastic roads, pavement analysis and design, application of geosynthetics for ground improvement, sustainability in offshore geotechnics, green tunnel construction technology and application, ground improvement techniques and municipal solid waste landfill. Given the scope of

contents, the book will be useful for researchers and professionals working in the field of civil engineering and especially sustainable structures and green buildings.

Proceedings of the 3rd International Conference on Sustainability in Civil Engineering Thanh Bui-Tien

2021-04-27 This book contains the proceedings of the 3rd International Conference on Sustainability in Civil Engineering, ICSCE 2020, held on 26–27 November 2020, in Hanoi, Vietnam. It presents the expertise of scientists and engineers in academia and industry in the field of bridge and highway engineering, construction materials, environmental engineering, engineering in industry 4.0, geotechnical engineering, structural damage detection and health monitoring, structural engineering, geographic information system engineering, traffic, transportation and logistics engineering, water resources, estuary and coastal

engineering.

Advances in Civil Engineering Rao Martand Singh
2020-09-21 This volume comprises select peer reviewed papers presented at the international conference - Advanced Research and Innovations in Civil Engineering (ARICE 2019). It brings together a wide variety of innovative topics and current developments in various branches of civil engineering. Some of the major topics covered include structural engineering, water resources engineering, transportation engineering, geotechnical engineering, environmental engineering, and remote sensing. The book also looks at emerging topics such as green building technologies, zero-energy buildings, smart materials, and intelligent transportation systems. Given its contents, the book will prove useful to

students, researchers, and professionals working in the field of civil engineering.

Introduction to Sanitary Engineering 1992

Structural Health Monitoring and Engineering Structures Tinh Quoc Bui 2021-06-10 The book presents the select proceedings of International Conference on Structural Health Monitoring and Engineering Structures (SHM&ES) 2020. It brings together different applied and technological aspects of structural health monitoring. The main topics covered in this book include damage assessment, structural health monitoring, engineering fracture mechanics, Inverse problem using optimization techniques, machine learning, deep learning, Artificial intelligent and non-destructive evaluation. It will be a reference for professionals and students in the areas of civil engineering, applied natural sciences and engineering management.