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Advances in Road Infrastructure and Mobility - Amin Akhnouk 2022-04-21

This volume focuses on recent advances in the planning, design, construction and management of new and existing roads with a particular focus on safety, sustainability and resilience. It discusses field experience through case studies and pilots presented by leading international subject-matter specialists. Chapters were selected from the 18th International Road Federation World Meeting & Exhibition, Dubai 2021.

Proceedings of the 9th International Conference on Maintenance and Rehabilitation of Pavements–Mairepav9 - Christiane Raab 2020-06-19

This book gathers the proceedings of an international conference held at Empa (Swiss Federal Laboratories for materials Science and Technology) in Dübendorf, Switzerland, in July 2020. The conference series was established by the International Society of Maintenance and Rehabilitation of Transport Infrastructure (iSMARTi) for promoting and discussing state-of-the-art design, maintenance, rehabilitation and management of pavements. The inaugural conference was held at Mackenzie Presbyterian University in Sao Paulo, Brazil, in 2000. The series has steadily grown over the past 20 years, with installments hosted in various countries all over the world. The respective contributions share the latest insights from research and practice in the maintenance and rehabilitation of pavements, and discuss advanced materials, technologies and solutions for achieving an even more sustainable and environmentally friendly infrastructure.

Ground Improvement Techniques and Geosynthetics - T Thyagaraj 2018-09-01

The book comprises select proceedings of the 2016 annual conference of the Indian Geotechnical Society (IGC 2016), with technical papers on the theme "Ground Improvement and Geosynthetics". The papers cover a wide range of topics, including chemical modification using admixtures, microbial-induced carbonate precipitation, geopolymers, fly ash and other industrial wastes, modification using geosynthetic materials such as natural and synthetic fibers, expanded polystyrene (EPS) geofoam, prefabricated vertical drains, geosynthetic encased-granular columns and mechanical densification through sand columns. This book is a valuable reference for researchers and practicing engineers alike.

Recent Trends in Civil Engineering - K. K. Pathak 2020-09-27

This book presents the selected peer-reviewed proceedings of the International Conference on Recent Trends and Innovations in Civil Engineering (ICRTICE 2019). The volume focuses on latest research and advances in the field of civil engineering and materials science such as design and development of new environmental materials, performance testing and verification of smart materials, performance analysis and simulation of steel structures, design and performance optimization of concrete structures, and building materials analysis. The book also covers

studies in geotechnical engineering, hydraulic engineering, road and bridge engineering, building services design, engineering management, water resource engineering and renewable energy. The contents of this book will be useful for students, researchers and professionals working in civil engineering.

Transportation and Environmental Geotechnics - Kasinathan Muthukkumaran 2022-12-10

This book comprises the select peer-reviewed proceedings of the Indian Geotechnical Conference (IGC) 2021. The contents focus on Geotechnics for Infrastructure Development and Innovative Applications. This book covers topics related application of natural and artificial geosynthetics in shallow foundation bearing capacity enhancement, highway & railway pavements, high speed rail and geo-environmental applications. Topics also covered related to simulation of geosynthetic encased stone column, application of geosynthetic for ground improvement, pore size distribution of compacted expansive soils, MICP, landfills, among others. This book is of interest to those in academia and industry.

Earthquakes and Structures - T. G. Sitharam 2021-11-19
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 earthquake engineering connected with structures. Some of the themes include soil structure interaction, dynamic analysis, underground structures, vibration isolation, seismic response of buildings etc. A strong emphasis is placed on connecting academic research and field practice, with many examples, case studies, and best practices. This volume will be of interest to researchers and practicing engineers alike.

Advances in Materials and Pavement Performance Prediction II - K. Anupam 2020-12-08

Inspired from the legacy of the previous four 3DFEM conferences held in Delft and Athens as well as the successful 2018 AM3P conference held in Doha, the 2020 AM3P conference continues the pavement mechanics theme including pavement models, experimental methods to estimate model parameters, and their implementation in predicting pavement performance. The AM3P conference is organized by the Standing International Advisory Committee (SIAC), at the time of this publication chaired by Professors Tom Scarpas, Eyad Masad, and Amit Bhasin. Advances in Materials and Pavement Performance Prediction II includes over 111 papers presented at the 2020 AM3P Conference. The technical topics covered include: - rigid pavements - pavement geotechnics - statistical and data tools in pavement engineering - pavement structures - asphalt mixtures - asphalt binders
The book will be invaluable to academics and engineers involved or interested in pavement engineering, pavement models, experimental methods to estimate model parameters, and their implementation in predicting pavement performance.

Urban Air Quality Monitoring, Modelling and Human Exposure Assessment - S. M. Shiva Nagendra 2020-09-24

This contributed volume is primarily intended for graduate and professional audiences. The book provides a basic understanding of urban air quality issues, root causes for local and urban air pollution, monitoring and modelling techniques, assessment, and control options to manage air quality at local and urban scale. The book also offers useful information on indoor air quality and smart sensors, which are gaining much importance in current times.

Geotechnics for Transportation Infrastructure - Ravi Sundaram 2019-05-30

This book presents selected papers from the International Symposium on Geotechnics for Transportation Infrastructure (ISGTI 2018). The research papers cover geotechnical interventions for the diverse fields of policy formulation, design, implementation, operation and management of the different modes of travel, namely road, air, rail and waterways. This book will be of interest to academic and industry researchers working in transportation geotechnics, as also to practicing engineers, policy makers, and civil agencies.

Problematic Soils and Geoenvironmental Concerns - Madhavi Latha Gali 2020-09-11

This volume comprises select papers presented during the Indian Geotechnical Conference 2018. This volume focuses on discussing the many challenges encountered in geoenvironmental engineering. The book covers sustainability aspects related to geotechnical engineering, problematic soils and ground improvement, use of geosynthetics and concepts of soil dynamics. The contents of this book will be useful to researchers and professionals working in geo-environmental engineering and to policy makers interested in understanding geotechnical concerns related to sustainable development.

Road and Airfield Pavement Technology - H. R. Pasindu 2022-03-03

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.

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.

PAVEMENT ENGINEERING - GOSWAMI, SANDIPAN 2022-11-01

In road projects, the pavement construction is very expensive and, therefore, the design and subsequent construction must make a proper balance between the cost and the sustainability. During the operation and maintenance period, the costs for routine maintenance (as and when pavement damage occurs) are to be kept as low as possible as there is less control towards cost of the periodic maintenance (mandatory at a contractual

interval, normally 5 years). The reduction in cost for routine maintenance will relieve the project authorities from unexpected expenditures. This comprehensive text on Pavement Engineering is up-to-date with industry standards and best practices and offers an exhaustive coverage on design, construction and maintenance of pavements. The book has followed AASHTO Guide for Design of Pavement Structures, 1993, besides meeting latest code provisions and pavement design methods recommended by Indian Roads Congress (IRC) and Bureau of Indian Standards (BIS). This book has all standard topics on the subject, but differs from all other books in respect of following contents: • Pavement Engineering and Highway Geometrics • Design of Flexible Bituminous/Asphalt Pavement • Design of Rigid Concrete Pavement • Construction of Flexible Bituminous/Asphalt Pavement • Construction of Rigid Concrete Pavement • Maintenance of Flexible Bituminous/Asphalt Pavement • Maintenance of Rigid Concrete Pavement • Maintenance of other Road, Drainage and Bridge features This book refers to the web uploaded volume 'User's Guide for Computer Applications' at web site

www.roadbridgedesign.com to help readers learn various computer applications in pavement engineering. This book is designed to serve as a textbook for undergraduate and postgraduate students of Civil Engineering, Highway Engineering and Traffic and Transportation Engineering. TARGET AUDIENCE • BE/B.Tech, ME/MS/M.Tech (Civil Engineering and Transportation/ Highway Engineering) • Professionals of Highway/Road Construction Industry *Proceedings of the Sixth International Conference of Transportation Research Group of India* - Lelitha Devi 2022-09-18

This book comprises the proceedings of the Sixth International Conference of Transportation Research Group of India (CTRG2021) focusing on emerging opportunities and challenges in the field of transportation of people and freight. The contents of the volume include recent advancements in the pavements and materials study like Fatigue damage, Moisture damage prediction, Quantification of Aging of Polymer, and Effect of short-term aging. It also covers rapidly evolving topics like Road network analysis, Location choice analysis for Transit-Oriented Development (TOD), Transit ridership, etc. This book will be beneficial to researchers, educators, practitioners, and policymakers alike.

Proceedings of the RILEM International Symposium on Bituminous Materials - Hervé Di Benedetto 2021-09-25

This volume highlights the latest advances, innovations, and applications in bituminous materials and structures and asphalt pavement technology, as presented by leading international researchers and engineers at the RILEM International Symposium on Bituminous Materials (ISBM), held in Lyon, France on December 14-16, 2020. The symposium represents a joint effort of three RILEM Technical Committees from Cluster F: 264-RAP "Asphalt Pavement Recycling", 272-PIM "Phase and Interphase Behaviour of Bituminous Materials", and 278-CHA "Crack-Healing of Asphalt Pavement Materials". It covers a diverse range of topics concerning bituminous materials (bitumen, mastics, mixtures) and road, railway and airport pavement structures, including: recycling, phase and interphase behaviour, cracking and healing, modification and innovative materials, durability and environmental aspects, testing and modelling, multi-scale properties, surface characteristics, structure performance, modelling and design, non-destructive testing, back-analysis, and Life Cycle Assessment. 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 new multidisciplinary collaborations.

Advances in Civil Engineering Materials - Dr. Ashad

Ullah Qureshi 2022-06-01

This chapter aims to understand and analyze the failure mechanism of Steel Fiber-Reinforced Concrete (SFRC). Fiber-reinforced Concrete (FRC) [ACI 116, 2000], Plain concrete fails in a brittle manner at the occurrence of cracking. Ductile fibers in FRC continue to carry stresses well beyond cracking, thus maintaining the structural integrity. The types of fibers using in FRC are Metallic (high-modulus) fibers and Nonmetallic (low-modulus). The metallic fibers to improve the flexural toughness and ductility of concrete for example: Steel, Carbon, and Glass. The Non-metallic (low-modulus) fibers enhance the fresh concrete properties and reduces the plastic-shrinkage cracking. Polypropylene, Cellulose, Nylon, Polyester. The steel fiber adding in to the concrete is called as steel Fiber Reinforced (SFRC) concrete. The SFRC is widely used in structure where fibre reinforcement is not essential for integrity and safety. For example: slabs on grade, rock slope stabilization and repair. The SFRC as substitutes of the shear reinforcement in structures/members and these concepts to cover in many building codes

Mechanics of Materials - Dr. B.C. Punmia 2002

Recent Developments in Waste Management - Ajay S. Kalamdhad 2020-01-03

This volume presents select papers presented during the Second International Conference on Waste Management held at IIT Guwahati. The book comprises of eight sections, and deals with various technologies associated with curbing of different environmental issues as well as management and legislative policies associated with them. This book will be of interest to various researchers, students, policy makers and people who pursue keen interest in the waste management techniques and policies.

Transportation, Water and Environmental Geotechnics - C. N. V. Satyanarayana Reddy 2021-08-02

This book comprises select proceedings of the Indian Geotechnical Conference 2020 (IGC2020) focusing on emerging opportunities and challenges in the field of transportation geotechnics, scour and erosion, offshore geotechnics, and environmental geotechnology. The contents will be useful to researchers, educators, practitioners and policy makers alike.

Proceedings of Indian Geotechnical and Geoenvironmental Engineering Conference (IGGEC) 2021, Vol. 2 - Arvind Kumar Agnihotri 2022-11-08

This book presents select proceedings of the Indian Geotechnical and Geoenvironmental Engineering Conference (IGGEC-21). Various topics covered in this book include geotechnical engineering, earthquake geotechnical engineering, geoenvironmental engineering, ground improvement, transportation geotechnics, waste management and sustainable engineering. The book will be a valuable reference for researchers and professionals in the discipline of civil, materials, geoenvironmental engineering, landfills, hydrogeology, ground improvement and earthquake geotechnical engineering.

Advances and Challenges in Structural Engineering - Hugo Rodrigues 2018-10-27

This edited volume on challenges in structural and bridge engineering brings together contributions to this important area of engineering research. The volume presents findings and case studies on fundamental and applied aspects of structural engineering, applied to buildings, bridges and infrastructures in general, and heritage patrimony. The scope of the volume focuses on the application of advanced experimental and numerical techniques and new technologies to the built environment. The volume is based on the best contributions to the 2nd GeoMEast International Congress and Exhibition on Sustainable Civil Infrastructures, Egypt 2018 – The official international congress of the Soil-Structure Interaction Group in Egypt (SSIGE).

Functional Pavement Design - Sandra Erkens 2016-10-14

Functional Pavement Design is a collections of 186 papers from 27 different countries, which were presented at the 4th Chinese-European Workshops (CEW) on Functional Pavement Design (Delft, the Netherlands, 29 June-1 July 2016). The focus of the CEW series is on field tests, laboratory test methods and advanced analysis techniques, and cover analysis, material development and production, experimental characterization, design and construction of pavements. The main areas covered by the book include: - Flexible pavements - Pavement and bitumen - Pavement performance and LCCA - Pavement structures - Pavements and environment - Pavements and innovation - Rigid pavements - Safety - Traffic engineering Functional Pavement Design is for contributing to the establishment of a new generation of pavement design methodologies in which rational mechanics principles, advanced constitutive models and advanced material characterization techniques shall constitute the backbone of the design process. The book will be much of interest to professionals and academics in pavement engineering and related disciplines.

Eleventh International Conference on the Bearing Capacity of Roads, Railways and Airfields - Inge Hoff 2022-07-07

Innovations in Road, Railway and Airfield Bearing Capacity – Volume 3 comprises the third part of contributions to the 11th International Conference on Bearing Capacity of Roads, Railways and Airfields (2022). In anticipation of the event, it unveils state-of-the-art information and research on the latest policies, traffic loading measurements, in-situ measurements and condition surveys, functional testing, deflection measurement evaluation, structural performance prediction for pavements and tracks, new construction and rehabilitation design systems, frost affected areas, drainage and environmental effects, reinforcement, traditional and recycled materials, full scale testing and on case histories of road, railways and airfields. This edited work is intended for a global audience of road, railway and airfield engineers, researchers and consultants, as well as building and maintenance companies looking to further upgrade their practices in the field.

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.

Fifth World Congress on Disaster Management: Volume V -

S. Anand Babu 2023-04-27

World Congress on Disaster Management (WCDM) brings researchers, policy makers and practitioners from around the world in the same platform to discuss various challenging issues of disaster risk management, enhance understanding of risks and advance actions for reducing risks and building resilience to disasters. The fifth WCDM deliberates on three critical issues that pose the most serious challenges as well as hold the best possible promise of building resilience to disasters. These are Technology, Finance, and Capacity. WCDM has emerged as the largest global conference on disaster management outside the UN system. The fifth WCDM was attended by more than 2500 scientists, professionals, policy makers, practitioners all around the world despite the prevalence of pandemic.

Advances in Materials and Pavement Prediction - Eyad Masad 2018-07-16

Advances in Materials and Pavement Performance Prediction contains the papers presented at the International Conference on Advances in Materials and Pavement Performance Prediction (AM3P, Doha, Qatar, 16-18 April 2018). There has been an increasing emphasis internationally in the design and construction of sustainable pavement systems. Advances in Materials and Pavement Prediction reflects this development highlighting various approaches to predict pavement performance. The contributions discuss links and interactions between material characterization methods, empirical predictions, mechanistic modeling, and statistically-sound calibration and validation methods. There is also emphasis on comparisons between modeling results and observed performance. The topics of the book include (but are not limited to): • Experimental laboratory material characterization • Field measurements and in situ material characterization • Constitutive modeling and simulation • Innovative pavement materials and interface systems • Non-destructive measurement techniques • Surface characterization, tire-surface interaction, pavement noise • Pavement rehabilitation • Case studies Advances in Materials and Pavement Performance Prediction will be of interest to academics and engineers involved in pavement engineering.

REVISITING STRATEGIES FOR SUSTAINABLE DEVELOPMENT: an eConSus Book Series Vol. 2 - Dr. Amitava Basu

Bicycling Infrastructure Design for Indian Cities and Emerging Economies - Debapratim Pandit 2022-04-26

The book focuses on specific infrastructural solutions for bicycling for Indian cities and other emerging economies. It explores the current state of bicycling infrastructure in Indian cities and proposes standard and custom designs, guidelines, 2D and 3D illustrations, technical drawings as well as relevant discussions and explanations for the choice of right infrastructural solutions according to site constraints. This volume will be of great interest to those in academia and industry dedicated to a vision of creating inclusive streets in Indian cities and emerging economies to making the street safe and comfortable for bicyclists.

Recent Advancements in Civil Engineering - Boeing Laishram 2021-12-14

This book presents select proceedings of the International Conference on Advances in Civil Engineering (ACE 2020). The book examines the recent advancements in construction management, construction materials, environmental engineering, geotechnical engineering, transportation engineering, water resource engineering, and structural engineering. The topics covered include sustainable construction process and materials, smart infrastructures, green building technology, global environmental change and ecosystem management, theoretical and analytical solutions for foundation engineering, smart transportation systems and

policy, GIS applications in water resource management, structural analysis for blast and impact resistance, and soft computing techniques in civil engineering. The book will be useful for researchers and professionals in the field of civil engineering.

Proceedings of the Fifth International Conference of Transportation Research Group of India - Dharamveer Singh 2022-05-13

This book (in three volumes) comprises the proceedings of the Fifth Conference of Transportation Research Group of India (CTRG2019) focusing on emerging opportunities and challenges in the field of transportation of people and freight. The contents of the book include characterization of conventional and innovative pavement materials, operational effects of road geometry, user impact of multimodal transport projects, spatial analysis of travel patterns, socio-economic impacts of transport projects, analysis of transportation policy and planning for safety and security, technology-enabled models of mobility services, etc. This book will be beneficial to researchers, educators, practitioners and policymakers alike.

Materials for Sustainable Infrastructure - Leslie Struble 2017-07-11

This volume includes a unique group of chapters focusing on new advances in materials for infrastructure sustainability. Chapters have been well-organized and handled by a group of international experts in order to discuss a timely topic with regards to the sustainable infrastructures. This volume is part of the proceedings of the 1st GeoMEast International Congress and Exhibition on Sustainable Civil Infrastructures, Egypt 2017.

Latest Developments in Geotechnical Earthquake Engineering and Soil Dynamics - T.G. Sitharam 2021-07-01

This volume brings together contributions from world renowned researchers and practitioners in the field of geotechnical engineering. The chapters of this book are based on the keynote and invited lectures delivered at the 7th International Conference on Recent Advances in Geotechnical Earthquake Engineering and Soil Dynamics. The book presents advances in the field of soil dynamics and geotechnical earthquake engineering. A strong emphasis is placed on proving connections between 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 research scholars, academicians and industry professionals alike.

Soil Erosion and Sedimentation Control - 1981

Proceedings of the 5th International Symposium on Asphalt Pavements & Environment (APE) - Marco Pasetto 2019-08-29

This volume highlights the latest advances, innovations, and applications in the field of asphalt pavement technology, as presented by leading international researchers and engineers at the 5th International Symposium on Asphalt Pavements & Environment (ISAP 2019 APE Symposium), held in Padua, Italy on September 11-13, 2019. It covers a diverse range of topics concerning materials and technologies for asphalt pavements, designed for sustainability and environmental compatibility: sustainable pavement materials, marginal materials for asphalt pavements, pavement structures, testing methods and performance, maintenance and management methods, urban heat island mitigation, energy harvesting, and Life Cycle Assessment. 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.

Precast concrete piles - FIB – International Federation for Structural Concrete 1986-01-01

This technical report covers all aspects of the uses of precast concrete piles - design, manufacture, transport, handling, pitching and driving. Both reinforced and prestressed concrete piles are dealt with and attention is paid to the use of both plan piles and those with enlarged toes. Although the report is a translation of parts of a set of three volumes produced in the Netherlands, those parts reproduced are internationally applicable. Special sections deal with the effects of pile driving on adjacent buildings and their occupants - both as regards vibration and noise.

Innovations in Infrastructure - Dipankar Deb 2018-09-28

The book covers innovative research and its applications in infrastructure development and related areas. This book discusses the state-of-art development, challenges and unsolved problems in the field of infrastructure/smart development, control engineering, power system infrastructure, smart infrastructure, waste management and renewable energy. The solutions discussed in this book encourage the researchers and IT professionals to put the methods into their practice.

PRINCIPLES OF TRANSPORTATION ENGINEERING - PARTHA CHAKROBORTY 2017-07-01

This book is designed to serve as a comprehensive text for undergraduate as well as first-year master's students of civil engineering in India. Now, in the second edition, the book incorporates a thorough revision and extension of topics covered in the previous edition. In order to keep the treatment focused, the emphasis is on roadways (highways) based transportation systems. SALIENT FEATURES OF THE BOOK • Analysis of characteristics of vehicles and drivers that affect traffic and design of traffic facilities. • Principles of road geometry design and how to lay a road. • Characterization and analysis of flows on highways, unsignalized and signalized intersections, toll plazas, etc. • Design principles for traffic facilities. • Engineering characteristics of pavement materials. • Structural analysis and design of highway pavements. • Principles of pavement design with special reference to the Indian conditions. • Evaluation and maintenance of highways. HIGHLIGHTS OF THE SECOND EDITION • Incorporates the latest and up-to-date information on the topics covered. • Includes a large number of figures, tables, worked-out examples, and exercises highlighting practical engineering design problems. • Elaborates text by introducing new sections on Continuum Models of Traffic Flow, Traffic Flow at Toll Plazas, Determination of Critical Gap, Occlusion of Signs, Fleet Allocation, Vehicle and Crew Assignment, Elastic Solution of Layered Structures, Analysis of Concrete Pavement Structures, Functional Evaluation of Pavements, Highway Economics and Finance, etc. in respective chapters.

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.

Green and Intelligent Technologies for Sustainable and Smart Asphalt Pavements - Xueyan Liu 2021-11-25

Green and Intelligent Technologies for Sustainable and Smart Asphalt Pavements contains 124 papers from 14 different countries which were presented at the 5th International Symposium on Frontiers of Road and Airport Engineering (IFRAE 2021, Delft, the Netherlands, 12-14 July 2021). The contributions focus on research in the areas of "Circular, Sustainable and Smart Airport and Highway Pavement" and collects the state-of-the-art and state-of-practice areas of long-life and circular materials for sustainable, cost-effective smart airport and highway pavement design and construction. The main areas covered by the book include: • Green and sustainable pavement materials • Recycling technology • Warm & cold mix asphalt materials • Functional pavement design • Self-healing pavement materials • Eco-efficiency pavement materials • Pavement preservation, maintenance and rehabilitation • Smart pavement materials and structures • Safety technology for smart roads • Pavement monitoring and big data analysis • Role of transportation engineering in future pavements Green and Intelligent Technologies for Sustainable and Smart Asphalt Pavements aims at researchers, practitioners, and administrators interested in new materials and innovative technologies for achieving sustainable and renewable pavement materials and design methods, and for those involved or working in the broader field of pavement engineering.

Bituminous Mixtures and Pavements VI - A. Nikolaidis 2015-07-28

Bituminous Mixtures and Pavements contains 113 accepted papers from the 6th International Conference Bituminous Mixtures and Pavements (6th ICONFBMP, Thessaloniki, Greece, 10-12 June 2015). The 6th ICONFBMP is organized every four years by the Highway Engineering Laboratory of the Aristotle University of Thessaloniki, Greece, in conjunction with