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This volume comprises select peer reviewed papers presented at the international conference - Advanced Research and Innovations in Civil



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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.

This book presents select proceedings of the 5th International Conference on Advances in Civil Engineering (ICACE 2020), covering basic civil engineering branches. The book covers some hands-on articles on different realistic problems in civil engineering. It highlights the current application of advanced civil engineering knowledge in developing countries. Various topics covered include construction and building materials, eco-friendly ground improvement, water and wastewater management, solid waste management, durability of concrete structures, various aspects of foundation engineering, transportation engineering & planning scenarios in developing countries, and highway materials. A few articles also discussed the

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advancement in civil engineering fields from global perspectives too. The book will be useful for professionals and researchers working in the area of civil engineering.

This book, based on Transport and Urban Development COST Action TU1208, presents the most advanced applications of ground penetrating radar (GPR) in a civil engineering context, with documentation of instrumentation, methods and results. It explains clearly how GPR can be employed for the surveying of critical transport infrastructure, such as roads, pavements, bridges and tunnels and for the sensing and mapping of underground utilities and voids. Detailed attention is also devoted to use of GPR in the inspection of geological structures and of construction materials and structures, including reinforced concrete, steel reinforcing bars and pre/post-tensioned stressing ducts. Advanced methods for solution of electromagnetic scattering problems and new data processing techniques are also presented. Readers will come to appreciate that GPR is a safe, advanced, non destructive and noninvasive imaging technique that can be effectively used for the inspection of composite structures and the performance of diagnostics relevant to the entire life cycle of civil engineering works.

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This expansive volume presents the essential topics related to construction materials composition and their practical application in structures and civil installations. The book's diverse slate of expert authors assemble invaluable case examples and performance data on the most important groups of materials used in construction, highlighting aspects such as nomenclature, the properties, the manufacturing processes, the selection criteria, the products/applications, the life cycle and recyclability, and the normalization. Civil Engineering Materials: Science, Processing, and Design is ideal for practicing architects; civil, construction, and structural engineers, and serves as a comprehensive reference for students of these disciplines. This book also:

- Provides a substantial and detailed overview of traditional materials used in structures and civil infrastructure
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- Diverse author team presents expert perspective from civil engineering, construction, and architecture
- Features a detailed glossary of terms and over 400 illustrations

This book gathers the latest advances, innovations, and applications

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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; 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.

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This book provides an essential overview of wind science and engineering, taking readers on a journey through the origins, developments, fundamentals, recent advancements and latest trends in this broad field. Along the way, it addresses a diverse range of topics, including: atmospheric physics; meteorology; micrometeorology; climatology; the aerodynamics of buildings, aircraft, sailing boats, road vehicles and trains; wind energy; atmospheric pollution; soil erosion; snow drift, windbreaks and crops; bioclimatic city-planning and architecture; wind actions and effects on structures; and wind hazards, vulnerability and risk. In order to provide a comprehensive overview of wind and its manifold effects, the book combines scientific, descriptive and narrative chapters. The book is chiefly intended for students and lecturers, for those who want to learn about the genesis and evolution of this topic, and for the multitude of scholars whose work involves the wind.

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

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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.

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

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useful for researchers and professionals in the field of civil engineering.

Putting forward an innovative approach to solving current technological problems faced by human society, this book encompasses a holistic way of perceiving the potential of natural systems. Nature has developed several materials and processes which both maintain an optimal performance and are also totally biodegradable, properties which can be used in civil engineering. Delivering the latest research findings to building industry professionals and other practitioners, as well as containing information useful to the public, 'Biotechnologies and Biomimetics for Civil Engineering' serves as an important tool to tackle the challenges of a more sustainable construction industry and the future of buildings.

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