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This book comprises select peer-reviewed proceedings of the International Conference on Recent Developments in Sustainable Infrastructure (ICRDSI) 2019. The topics span over all major disciplines of civil engineering with regard to sustainable development of infrastructure and innovation in construction materials, especially concrete. The book covers numerical and analytical studies on various topics such as composite and sandwiched structures, green building, groundwater modeling, rainwater harvesting, soil dynamics, seismic resistance and control of structures, waste management, structural health monitoring, and geo-environmental engineering. This book will be useful for students, researchers and professionals working in sustainable technologies in civil engineering.

This book comprises selected papers from the International Conference on Civil Engineering Trends and Challenges for Sustainability (CTCS) 2019. The book presents latest research in several areas of civil engineering such as construction and structural engineering, geotechnical engineering, environmental engineering and sustainability, and geographical information systems. With a special emphasis on sustainable development, the book covers case studies and addresses key challenges in sustainability. The scope of the contents makes the book useful for students, researchers, and professionals interested in sustainable practices in civil engineering.

This Symposium provided an international forum for exchange of ideas and creation of knowledge in recent advances on Multi-Functional Material Structures and Systems. Novel theories, mathematical models, analyses, and application of computational and experimental methods are topics treated. In particular, this work reflects the state of the art in mathematical modeling, computational methods, new experimental methods, new and advanced engineering applications in emerging technologies advanced sensors, structural health monitoring, MEMS, and advanced control systems.

This book is based on the principles, limitations, challenges, improvements and applications of nanotechnology in medical science as described in the literature. It highlights various parameters affecting the synthesis of bio-nanomaterials and exclusive techniques utilized for characterizing the nanostructures for their potential use in biomedical and environmental applications. Moreover, biodegradable synthesis of nanomaterials is regarded as an important tool to reduce the destructive effects associated with the traditional methods of synthesis for nanostructures commonly utilized in laboratory and industry and as well as academic scale of innovative research foundation.

This book, divided in two volumes, originates from Techno-Societal 2018: the 2nd International Conference on Advanced Technologies for Societal Applications, Maharashtra, India, that brings together faculty members of various engineering colleges to solve Indian regional relevant problems under the guidance of eminent researchers from various reputed organizations. The focus is on technologies that help develop and improve society, in particular on issues such as the betterment of differently abled people, environment impact, livelihood, rural employment, agriculture, healthcare, energy, transport, sanitation, water, education. This conference aims to help innovators to share their best practices or products developed to solve specific local problems which in turn may help the other researchers to take inspiration to solve problems in their region. On the other hand, technologies proposed by expert researchers may find applications in different regions. This offers a multidisciplinary platform for researchers from a broad range of disciplines of Science, Engineering and Technology for reporting innovations at different levels.

This book shows how to create programs using the finite element method to solve specific problems. The new second edition covers broader ground than the first and the authors deal with geomechanics in much less detail giving a more general approach to the subject. To give students a thorough grounding in the development of finite element programs, topics have been added to most chapters and additional computer programs and examples have been included. There is additional material on fluid flow and on a wide range of elastic, elasto-plastic and stability analyses; the sections on steady state and transient flow have been extended to make whole chapters; there is more detail on coupled problems; eigenvalue analysis has a chapter to itself; and additional methods are given for the solution of differential equations.

Structural Analysis, or the 'Theory of Structures', is an important subject for civil engineering students who are required to analyze and design structures. It is a vast field and is largely taught at the undergraduate level. A few topics like Matrix Method and Plastic Analysis are also taught at the postgraduate level and in structural engineering electives. The entire course has been covered in two volumes - Structural Analysis I and II. Structural Analysis I deals with the basics of structural analysis, measurements of deflection, various types of deflection, loads and influence lines, etc.

The book focuses on the relevant basic concepts of Magnetic oxides, as well as on synthesis routes and important applications of spinel ferrites, hexaferrites and magnetic oxide nanomaterials. Keywords: Magnetic Oxides, Spinel Ferrites, Hexaferrites, Magnetolectric Ceramic Composites, Soft Ferrites, Nano-Size Spinel Ferrites, Magnetic Nanoparticles, Device Miniaturization.

So far working stress method was used for the design of steel structures. Nowadays whole world is going for the limit state method which is more rational. Indian national code IS:800 for the design of steel structures was revised in the year 2007 incorporating limit state method. This book is aimed at training the students in using IS: 800 2007 for designing steel structures by limit state method. The author has explained the provisions of code in simple language and illustrated the design procedure with a large number of problems. It is hoped that all universities will soon adopt design of steel structures as per IS: 2007 and this book will serve as a good textbook.A sincere effort has been made to present design procedure using simple language, neat sketches and solved problems.

Structural analysis, or the 'theory of structures', is an important subject for civil engineering students who are required to analyse and design structures. It is a vast field and is largely taught at the undergraduate level. A few topics like matrix method and plastic analysis are also taught at the postgraduate level and in Structural Engineering electives. The entire course has been covered in two volumes—Structural Analysis-I and II. Structural Analysis-II deals in depth with the analysis of indeterminate structures, and also special topics like curved beams and unsymmetrical bending. It provides an introduction to advanced methods of analysis, namely, matrix method and plastic analysis. SALIENT FEATURES □ Systematic explanation of concepts and underlying theory in each chapter □ Numerous solved problems presented methodically □ University examination questions solved in many chapters □ A set of exercises to test the student's ability in solving them correctly NEW IN THE FOURTH EDITION □ Thoroughly reworked computations □ Objective type questions and review questions □ A revamped summary for each chapter □ Redrawing of some diagrams

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