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Wai-Fah Chen, Lian Duan



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revised and updated this second edition contains 26 new chapters Finite Element Analysis and Design of Steel and Steel-Concrete Composite Bridges Ehab Ellobody, 2023-01-25 This second edition of Finite Element Analysis and Design of Steel and Steel Concrete Composite Bridges is brought fully up to date and provides structural engineers academics practitioners and researchers with a detailed robust and comprehensive combined finite modeling and design approach The book's eight chapters begin with an overview of the various forms of modern steel and steel concrete composite bridges current design codes American British and Eurocodes nonlinear material behavior of the bridge components and applied loads and stability of steel and steel concrete composite bridges This is followed by self contained chapters concerning design examples of steel and steel concrete composite bridge components as well as finite element modeling of the bridges and their components The final chapter focuses on finite element analysis and the design of composite highway bridges with profiled steel sheeting This volume will serve as a valuable reference source addressing the issues problems challenges and questions on how to enhance the design of steel and steel concrete composite bridges including highway bridges with profiled steel sheeting using finite element modeling techniques Provides all necessary information to understand relevant terminologies and finite element modeling for steel and composite bridges Discusses new designs and materials used in highway and railway bridge Illustrates how to relate the design guidelines and finite element modeling based on internal forces and nominal stresses Explains what should be the consistent approach when developing nonlinear finite element analysis for steel and composite bridges Contains extensive case studies on combining finite element analysis with design for steel and steel concrete composite bridges including highway bridges with profiled steel sheeting **Experimental Vibration Analysis for Civil Structures** Joel P. Conte, Rodrigo Astroza, Gianmario Benzoni, Glauco Feltrin, Kenneth J. Loh, Babak Moaveni, 2017-10-11 This edited volume presents selected contributions from the International Conference on Experimental Vibration Analysis of Civil Engineering Structures held in San Diego California in 2017 EVACES2017 The event brought together engineers scientists researchers and practitioners providing a forum for discussing and disseminating the latest developments and achievements in all major aspects of dynamic testing for civil engineering structures including instrumentation sources of excitation data analysis system identification monitoring and condition assessment in situ and laboratory experiments codes and standards and vibration mitigation Proceedings of the Sustainable Concrete Materials and Structures in Construction 2020 Sharifah Salwa Mohd Zuki, Shahrul Niza Mokhtar, Shahiron Shahidan, Mohd Haziman Bin Wan Ibrahim, 2021-05-25 This book gathers a selection of peer reviewed papers presented at the Sustainable Concrete Materials and Structures in Construction 2020 held at Universiti Tun Hussein Onn Malaysia Malaysia on 24th August 2020 The contributions prepared by international scientists and engineers cover the latest advances in and innovative applications with the theme Towards Sustainable Green Concrete The articles in this book cater to academics graduate students researchers as well as industrial practitioners working in the areas of concrete materials and building construction

InCIEC 2015 Marina Yusoff,Nor Hayati Abdul Hamid,Mohd Fadzil Arshad,Ahmad Kamil Arshad,Ahmad Ruslan Mohd Ridzuan,Haryati Awang,2016-06-18 The special focus of these proceedings is on the areas of infrastructure engineering and sustainability management They provide detailed information on innovative research developments in construction materials and structures in addition to a compilation of interdisciplinary findings combining nano materials and engineering The coverage of cutting edge infrastructure and sustainability issues in engineering includes earthquakes bioremediation synergistic management timber engineering flood management and intelligent transport systems Soil-Steel Bridges Damian Beben,2020-03-04 The primary objective of this book is to provide designers with a set of analysis and design specifications for soil steel bridges and culverts also called flexible structures Brief but informative this guide is based on a quick look up approach to code applications design and analysis methods calculations as well as applications and solved examples The book addresses the unique aspects of soil steel bridges design and analysis as well as examples of applications numerical analysis and modeling techniques corrosion and durability problems service life and maintenance and impact of moving loads **Electromagnetic Compatibility in Railways** Ade Ogunsola,Andrea Mariscotti,2012-08-14 A railway is a complex distributed engineering system the construction of a new railway or the modernisation of a existing one requires a deep understanding of the constitutive components and their interaction inside the system itself and towards the outside world The former covers the various subsystems featuring a complex mix of high power sources sensitive safety critical systems intentional transmitters etc and their interaction including the specific functions and their relevance to safety The latter represents all the additional possible external victims and sources of electromagnetic interaction EMC thus starts from a comprehension of the emissions and immunity characteristics and the interactions between sources and victims with a strong relationship to electromagnetics and to system modeling On the other hand the said functions are achieved and preserved and their relevance for safety is adequately handled if the related requirements are well posed and managed throughout the process from the beginning The link is represented by standards and their correct application as a support to analysis testing and demonstration *Advances in Smart Vehicular Technology, Transportation, Communication and Applications* Shaoquan Ni,Tsu-Yang Wu,Tang-Hsien Chang,Jeng-Shyang Pan,Lakhmi C. Jain,2018-11-30 This book highlights papers presented at the Second International Conference on Smart Vehicular Technology Transportation Communication and Applications VTCA 2018 which was held at Mount Emei Sichuan Province China from 25 to 28 October 2018 The conference was co sponsored by Springer Southwest Jiaotong University Fujian University of Technology Chang an University Shandong University of Science and Technology Fujian Provincial Key Lab of Big Data Mining and Applications and the National Demonstration Center for Experimental Electronic Information and Electrical Technology Education Fujian University of Technology The conference was intended as an international forum for researchers and professionals engaged in all areas of smart vehicular technology vehicular transportation vehicular communication and applications

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