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Seismic Assessment and Retrofit of Reinforced Concrete Structures

Edited by

Pier Paolo Rossi and Melina Bosco

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Reinforced Concrete Structures Seismic Z

Biswajeet Pradhan



Reinforced Concrete Structures Seismic Z:

Advanced Concretes and Their Structural Applications Zhigang Zhang,Xijun Shi,Fangying Wang,Qian Zhang,2022-09-23

Reinforced Concrete Structure IC Syal | AK Goel,2008 It has been gratifying to find the earlier editions of the book read and used in so many parts of the country The new edition owes much to the useful comments and suggestions of the teachers students and the practising engineers to whom the express their grateful thanks A new chapter on Prestressed Concrete has been added to the new edition In particular the chapter discusses various aspects of prestressing like types of prestressing various methods of prestressing materials used losses in prestress layout of cable profiles analysis and methods of design of various elements and the detailed analysis and design of end Block Static and Dynamic Performance Analysis of Structures and Materials Under Complex Loads and Environmental Excitation Ping Xiang,Abdelmoumen Anis Bousahla,Huaping Wang,Adesola Ademiloye,2025-05-29 With the development of structural materials more and more new materials and construction methods are applied to infrastructure construction in order to achieve carbon neutrality and emission peak Nowadays people have more and more strict requirements for the comfort safety and resistance to environmental disasters of infrastructure Therefore the static and dynamic performance of new structures and materials under complex environment and load becomes more and more important in construction and design of infrastructure engineering Modern civil engineering has been developing towards intelligence Both construction technology and material technology are developing towards a more intelligent direction How to take new means to make the structure have good mechanical performance and can sense the external environment and load excitation is a development direction of civil engineering This Research Topic welcomes researches on the macro and micro mechanical performance analysis of materials static and dynamic response analysis of structures in construction engineering bridge engineering railway engineering and geotechnical engineering In addition under the action of wind load and earthquake load the large scale vibration of structures will seriously endanger the safety The safety and stability performances of infrastructures still represent a serious challenge to researchers engineers and constructors This Research Topic is dedicated to the most recent advances in research into the mechanical performances of structures and materials and some related applications We welcome scientists and investigators to contribute Original Research and Review articles addressing the main issues facing the field Potential topics include but are not limited to the following New theoretical numerical and experimental methods for vibration of structures Assessment of dynamic responses of infrastructures under static and dynamic loads Innovative design and mechanical performances of composite structures Intelligent structural health monitoring with optical fiber sensing technology Mechanical performances of structures and materials from micro to macro scales Mechanism of vehicle bridge coupling vibration Structural fatigue performance analysis under earthquakes Infrastructure innovations for durability and resilience with new structure system and materials Dynamic evolution of structural damage under extreme loads such as

earthquake typhoon and impact Structural health monitoring of large scale infrastructures Numerical modelling and computational mechanical analysis of structures and infrastructures **EPMESC VII** E. Arantes e Oliveira, J. Bento, E. Pereira, 2012-12-02 The first EPMESC Conference took place in 1985 It was during the Conference recognising the success it had been that the promoters decided to organise other EPMESC conferences giving birth to a new series of international meetings devoted to computational methods in engineering The variety of subjects covered by the papers submitted to the 7th Conference demonstrates how much computational methods expanded and became richer in their applications to Science and Technology New paradigms are being cultivated as non numerical applications started to compete with the more traditional numerical ones The scientific and technological communities to which the EPMESC Conferences used to be addressed themselves have changed The two volume Proceedings that we achieved to gather represent many of the interesting developments that are taking place not only in the Asia Pacific Region but also in some other scientifically advanced parts of the World and cover a vast list of subjects grouped under the following headings Applied Mathematics Physics and Materials Science Solid Mechanics Finite Element and Boundary Element Methods Structural Analysis Structural Dynamics and Earthquake Engineering Structural Engineering Reinforced Concrete Knowledge Based Systems Artificial Neural Networks and Genetic Algorithms Computer Aided Instruction Computer Aided Design and Computer Aided Engineering Geographic Information Systems Environmental Applications Road Engineering Geotechnics Soil Mechanics Fluid Mechanics and Hydraulics Two hundred and fifty one summaries were accepted many of them with comments and restrictions by the Programme Committee From these 153 papers resulted many of them from Portuguese and Chinese origin that were submitted to the revision of an international panel of referees from Australia Belgium Brazil China Italy Macao Portugal Switzerland United Kingdom and United States to which we gladly acknowledge our gratitude and appreciation

Buildings and Structures under Extreme Loads Chiara Bedon, Flavio Stochino, Daniel Honfi, 2020-11-25 Exceptional loads on buildings and structures may have different causes including high strain dynamic effects due to natural hazards man made attacks and accidents as well as extreme operational conditions severe temperature variations humidity etc All of these aspects can be critical for specific structural typologies and or materials that are particularly sensitive to external conditions In this regard dedicated and refined methods are required for their design analysis and maintenance under the expected lifetime There are major challenges related to the structural typology and material properties with respect to the key features of the imposed design load Further issues can be derived from the need for risk mitigation or retrofit of existing structures as well as from the optimal and safe design of innovative materials systems Finally in some cases no appropriate design recommendations are available and thus experimental investigations can have a key role within the overall process In this Special Issue original research studies review papers and experimental and or numerical investigations are presented for the structural performance assessment of buildings and structures under various extreme conditions that are of interest for

design **10th International Conference on FRP Composites in Civil Engineering** Alper Ilki, Medine Ispir, Pinar Inci, 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

Seismic Retrofit of Existing Reinforced Concrete Buildings Stelios Antoniou, 2023-01-31 Seismic Retrofit of Existing Reinforced Concrete Buildings Understand the complexities and challenges of retrofitting building infrastructure Across the world buildings are gradually becoming structurally unsound Many were constructed before seismic load capacity was a mandatory component of building standards and were often built with low quality materials or using unsafe construction practices Many more are simply aging with materials degrading and steel corroding As a result efforts are ongoing to retrofit existing structures and to develop new techniques for assessing and enhancing seismic load capacity in order to create a safer building infrastructure worldwide Seismic Retrofit of Existing Reinforced Concrete Buildings provides a thorough book length discussion of these techniques and their applications Balancing theory and practice the book provides engineers with a broad base of knowledge from which to approach real world seismic assessments and retrofitting projects It incorporates knowledge and experience frequently omitted from the building design process for a fuller account of this critical engineering subfield Seismic Retrofit of Existing Reinforced Concrete Buildings readers will also find Detailed treatment of each available strengthening technique complete with advantages and disadvantages In depth guidelines to select a specific technique for a given building type and or engineering scenario Step by step guidance through the assessment retrofitting process Seismic Retrofit of Existing Reinforced Concrete Buildings is an ideal reference for civil and structural engineering professionals and advanced students particularly those working in seismically active areas Engineering Materials, Structures, Systems and Methods for a More Sustainable Future Alphose Zingoni, 2025-08-07 Engineering Materials Structures Systems and Methods for a More Sustainable Future comprises 275 papers that were presented at SEMC 2025 the Ninth International Conference on Structural Engineering Mechanics and Computation This event held in Cape Town South Africa from 1 to 3 September 2025 was attended by around 300 participants from 42 countries worldwide The Proceedings are divided into 15 sections The various topics may be grouped into five broad categories covering i the

mechanics of materials solids and structures ii numerical modelling computational simulations and experimental testing iii analysis design and construction in the traditional engineering materials iv innovative engineering materials structures and methods v maintenance long term performance life cycle considerations and sustainable construction Engineering Materials Structures Systems and Methods for a More Sustainable Future will be of interest to civil structural mechanical marine and aerospace engineers as well as planners and architects Two versions of the papers are available full papers of length six pages are included in the e book while short papers of length two pages intended to be concise but self contained summaries of the full papers are in the printed book

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 *Proceedings of the First International Conference on Engineering Structures* Jie Yang, Jiyang Fu, Airong Liu, Ching-Tai Ng, 2025-06-16 This book includes peer reviews articles from the First International Conference on Engineering Structures ICES2024 held at Guangzhou China on 8 11 November 2024 The conference is an international multi disciplinary forum for scientists and engineers to disseminate the latest innovations and achievements discuss current trends and emerging issues in structural engineering and structural mechanics communities and promote information exchange within multidisciplinary field The book focuses on new developments and innovative applications of structural and mechanics principles and digital technologies for the analysis and design of engineering structures

Life Cycle Analysis and Assessment in Civil Engineering: Towards an Integrated Vision Robby Caspeelee, Luc Taerwe, Dan Frangopol, 2018-10-31 This volume contains the papers presented at IALCCE2018 the Sixth International Symposium on Life Cycle Civil Engineering IALCCE2018 held in Ghent Belgium October 28 31 2018 It consists of a book of extended abstracts and a USB device with full papers including the Fazlur R Khan lecture 8 keynote lectures and 390 technical papers from all over the world Contributions relate to design inspection assessment maintenance or optimization in the framework of life cycle analysis of civil engineering structures and infrastructure systems Life cycle aspects that are developed and discussed range from structural safety and durability to sustainability serviceability robustness and resilience Applications relate to buildings bridges and viaducts highways and runways tunnels and underground structures off shore and marine structures dams and hydraulic structures prefabricated design infrastructure systems etc During the IALCCE2018 conference a particular focus is put on the cross fertilization between different sub areas of expertise and the development of an overall vision for life cycle analysis in civil engineering The aim of the editors is to provide a valuable source of cutting edge information for anyone interested in life cycle analysis and assessment in civil

engineering including researchers practising engineers consultants contractors decision makers and representatives from local authorities

Life-Cycle Performance of Structures and Infrastructure Systems in Diverse Environments Chun-Qing Li, Dan M. Frangopol, 2025-07-14 Life Cycle Performance of Structures and Infrastructure Systems in Diverse Environments contains the lectures and papers presented at the Ninth International Symposium on Life Cycle Civil Engineering IALCCE 2025 Melbourne Australia 15-19 July 2025. This book includes the full papers of 228 contributions presented at IALCCE 2025 including the Fazlur R. Khan Lecture, seven Keynote Lectures and 220 technical papers. The papers cover recent advances and cutting edge research in the field of life cycle civil engineering including emerging concepts, new theories and innovative applications related to life cycle design, assessment, inspection, monitoring, repair, maintenance, rehabilitation and management of structures and infrastructure systems under uncertainty. Major topics covered include life cycle carbon assessment of civil infrastructure systems, life cycle design and assessment for structures and infrastructure systems, life cycle management of civil infrastructure, whole life costing, life cycle risk analysis and optimization of civil infrastructure and life cycle digital tools for civil engineering among others. This open access book provides both an up-to-date overview of the field of life cycle civil engineering and significant contributions to the process of making more rational decisions to mitigate the life cycle risk and improve the life cycle safety, reliability, resilience and sustainability of structures and infrastructure systems exposed to diverse environments in a changing climate for the purpose of enhancing the welfare of society. It will serve as a valuable reference to all concerned with life cycle of civil engineering systems including students, researchers, practitioners, consultants, contractors, decision makers and representatives of managing bodies and public authorities from all branches of civil engineering.

Proceedings of 5th International Conference on Civil Engineering and Architecture Thomas Kang, 2023-10-04 This book states that the proceedings gathers selected papers from 2022 5th International Conference on Civil Engineering and Architecture ICCEA 2022 which was held in Hanoi, Vietnam on December 16-18, 2022. The conference is the premier forum for the presentation of new advances and research results in the fields of theoretical, experimental and practical civil engineering and architecture. And this proceedings from the conference mainly discusses architectural design and project management, environmental protection and spatial planning, design and analysis of building materials and structural engineering and safety. And these materials can be useful and valuable sources for researchers and professionals working in the field of civil engineering and architecture.

Sustainable Innovations in Construction Management Osman Gencel, M. Balasubramanian, T. Palanisamy, 2023-11-20 This book presents the select proceedings of International Conference on Civil Engineering Innovative Development in Engineering Advances ICC IDEA 2023. This book covers the latest research in the areas of construction engineering and management, urban planning and design, building energy conservation and green architecture, materials science and engineering, innovation in construction materials and information technology in civil engineering. The book is useful for researchers and

professionals in civil engineering **Seismic Performance of Asymmetric Building Structures** Chunwei Zhang,Zeshan Alam,Li Sun,Bijan Samali,2020-05-07 Seismic Performance of Asymmetric Building Structures presents detailed investigations on the effective assessment of structural seismic response under excessive torsional vibrations demonstrating behavioural aspects from local response perspective to global seismic demands The work provides comprehensive analytical computational experimental investigations and proposes improved design guidelines that structural engineers can utilize to enhance the seismic design of asymmetric building structures Combining extensive experimental and numerical data stock for seismic performance assessment with a particular focus on asymmetric building structures the book includes An overview of asymmetric building structures from seismic damage perspective Local and global performance assessment of asymmetric structures under extreme seismic actions Post earthquake damage evaluation from varying frequency trends Extended numerical applications for experimental response validations Evaluation of critical regions of asymmetric structure with stress concentration Statistical distribution of seismic response under varying design parameters Design guidelines for asymmetric building structures This work s comprehensive evaluations are carried out with modern sensing techniques planned with meticulous attention to cover objectives with a particular focus on asymmetry in reinforced concrete and steel structures It assesses various aspects of asymmetric building structures that are rarely dealt with in the current literature It gathers fruitful information from various building design codes and explains their limitations in addressing damage related challenges which is not only useful for practicing engineers but also for academics The book will be invaluable for experts researchers students and practitioners from relevant areas as well as for emergency preparedness managers

Experimental Vibration Analysis for Civil Structures Jian Zhang,Zhishen Wu,Mohammad Noori,Yong Li,2020-11-04 Experimental Vibration Analysis for Civil Structures Testing Sensing Monitoring and Control covers a wide range of topics in the areas of vibration testing instrumentation and analysis of civil engineering and critical infrastructure It explains how recent research development and applications in experimental vibration analysis of civil engineering structures have progressed significantly due to advancements in the fields of sensor and testing technologies instrumentation data acquisition systems computer technology computational modeling and simulation of large and complex civil infrastructure systems The book also examines how cutting edge artificial intelligence and data analytics can be applied to infrastructure systems Features Explains how recent technological developments have resulted in addressing the challenge of designing more resilient infrastructure Examines numerous research studies conducted by leading scholars in the field of infrastructure systems and civil engineering Presents the most emergent fields of civil engineering design such as data analytics and Artificial Intelligence for the analysis and performance assessment of infrastructure systems and their resilience Emphasizes the importance of an interdisciplinary approach to develop the modeling analysis and experimental tools for designing more resilient and intelligent infrastructures Appropriate for practicing engineers and upper level students Experimental Vibration

Analysis for Civil Structures Testing Sensing Monitoring and Control serves as a strategic roadmap for further research in the field of vibration testing and instrumentation of infrastructure systems

Size Effect in Concrete Materials and Structures Xiuli Du,Liu Jin,2020-12-31 The present book gathers a large amount of the recent research results on this topic to provide a better understanding of the size effect by giving a quantitative description of the relationship between the properties of engineering concrete making material e g the nominal strength and the corresponding structure size To be precise this is about to explore the new static and dynamic unified size effect laws for concrete materials as well as size effect laws for concrete components Besides presenting clear and accurate descriptions that further deepen our fundamental knowledge this book provides additionally useful tools for the scientific design of concrete structures in practical engineering applications

Physico-mechanical properties and treatment technology of hazardous geomaterials Bing Bai,Riyadh Al-Raoush,Wei Hu,Xianze Cui,2023-04-14

Seismic Performance of Corroded Reinforced Concrete Structures Retrofitted with FRP Dejian Shen,2024-07-05 This monograph is written based on the author s research on seismic assessment and retrofitting of corrosion damaged reinforced concrete structures during the recent two decades It points out that reinforcement corrosion is one of the main reasons that contribute to the deterioration of the seismic performances and durability of reinforced concrete structures It illustrates that the mechanism of reinforcement corrosion should be investigated to propose a method for evaluating the seismic performance of corroded components and structures It calls for a comprehensive investigation on the bond performance between corroded reinforcing bars and concrete as well as the degradation law of seismic performance of corroded beams columns beam column joints and shear walls from the perspectives of materials components and structures With the promotion and application of composite materials fiber reinforced polymer FRP has been proposed as an ideal material for retrofitting reinforced concrete structures By emphasizing the mechanism of reinforcement corrosion and the integrated evaluation of materials components and structures this monograph offers an idea of using FRP to retrofit the seismic performance of corroded reinforced concrete structures It is designed as a reference work for professionals or practitioners and a textbook for undergraduates or postgraduates This book provides valuable knowledge and useful methods that can be considered in the field of seismic assessment and retrofitting of corrosion damaged reinforced concrete structures with other FRPs

Advanced High Strength Natural Fibre Composites in Construction Mizi Fan,Feng Fu,2016-10-04 Advanced High Strength Natural Fibre Composites in Construction provides the basic framework and knowledge required for the efficient and sustainable use of natural fiber composites as a structural and building material along with information on the ongoing efforts to improve the efficiency of use and competitiveness of these composites Areas of particular interest include understanding the nature and behavior of raw materials and their functional contributions to the advanced architectures of high strength composites Part 1 discussing both traditional and novel manufacturing technologies for various advanced natural fiber construction materials

Part 2 examining the parameters and performance of the composites Part 3 and finally commenting on the associated codes standards and sustainable development of advanced high strength natural fiber composites for construction This exposition will be based on well understood environmental science as it applies to construction Part 4 The book is aimed at academics research scholars and engineers and will serve as a most valuable text or reference book that challenges undergraduate and postgraduate students to think beyond standard practices when designing and creating novel construction materials Presents the first comprehensive review on the efficient and sustainable use of natural fiber composites in construction and building materials Contains detailed information on the structure chemical composition and physical and mechanical properties of natural fibers Covers both traditional and novel manufacturing technologies for high strength natural fiber composites Includes material parameters and performance in use as well as associated codes standards and applied case studies Presents contributions from leading international experts in the field

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