



Multi-storey Precast Concrete Framed Structures

Second Edition

Kim S. Elliott and Colin K. Jolly

WILEY-Blackwell

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Multi-Storey Precast Concrete Framed Structures Kim S. Elliott, Colin Jolly, 2013-10-07 Precast reinforced and prestressed concrete frames provide a high strength stable durable and robust solution for any multi storey structure and are widely regarded as a high quality economic and architecturally versatile technology for the construction of multi storey buildings The resulting buildings satisfy a wide range of commercial and industrial needs Precast concrete buildings behave in a different way to those where the concrete is cast in situ with the components subject to different forces and movements These factors are explored in detail in the second edition of Multi Storey Precast Concrete Framed Structures providing a detailed understanding of the procedures involved in precast structural design This new edition has been fully updated to reflect recent developments and includes many structural calculations based on EUROCODE standards These are shown in parallel with similar calculations based on British Standards to ensure the designer is fully aware of the differences required in designing to EUROCODE standards Civil and structural engineers as well as final year undergraduate and postgraduate students of civil and structural engineering will all find this book to be thorough overview of this important construction technology

Precast Concrete Structures Kim S. Elliott, 2019-08-08 This second edition of Precast Concrete Structures introduces the conceptual design ideas for the prefabrication of concrete structures and presents a number of worked examples that translate designs from BS 8110 to Eurocode EC2 before going into the detail of the design manufacture and construction of precast concrete multi storey buildings Detailed structural analysis of precast concrete and its use is provided and some details are presented of recent precast skeletal frames of up to forty storeys The theory is supported by numerous worked examples to Eurocodes and European Product Standards for precast reinforced and prestressed concrete elements composite construction joints and connections and frame stability together with extensive specifications for precast concrete structures The book is extensively illustrated with over 500 photographs and line drawings

Modernisation, Mechanisation and Industrialisation of Concrete Structures Kim S. Elliott, Zuhairi Abd. Hamid, 2017-02-09 Modernisation Mechanisation and Industrialisation of Concrete Structures discusses the manufacture of high quality prefabricated concrete construction components and how that can be achieved through the application of developments in concrete technology information modelling and best practice in design and manufacturing techniques

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

Transactions and Notes of the Concrete Institute ,1963 **CIRIA Index of Technical Publications** Dargan Bullivant Associates,Construction Industry Research and Information Association,1970 **Construction** ,1984 *Books in Print* ,1991 *The Structural Engineer* ,1987 **Transactions** ,1984 *Art of the Skyscraper* Mir M. Ali,2001 This the first published book on the life and work of Fazlur Khan stands as a powerful testament to this revolutionary mind and to the technological advances it engendered *Municipal Engineering; Sanitary Record and the Municipal Motor* ,1951 *The Indian Concrete Journal* ,1981 **The Architects' Journal** ,1996 **Concrete Quarterly** ,1987 **Structural Design for Architecture** Angus Macdonald,1997 Intended principally for use by students of architecture this book provides information required for making sensible choices on the structural aspects of architectural design **Building Science Abstracts** Building Research Station (Great Britain),1969 **Consolidated Accessions List** Great Britain. Ministry of Public Building and Works. Library,1966 **Canadian Journal of Civil Engineering** ,1982 **Associations' Publications in Print** ,1981 1981 in 2 v v 1 Subject index v 2 Title index Publisher title index Association name index Acronym index Key to publishers and distributors abbreviations

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