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1. Precast concrete construction. 2. Tall buildings – Design and construction. I. Title.

Multi-storey Precast Concrete Framed Structures

Precast reinforced and prestressed concrete frames provide a high-strength, stable, durable and robust solution for any multi-storey structure, and are widely

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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.

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architecturally versatile technology for the construction of multi-storey buildings.

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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...

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Understand about the multi-storey framed structures and floor system Know the types of material available for multi- storey framed structures and factors that influence. ... For shorter spans, precast concrete floor slabs can be used with steel beams. The precast units may be.

Multi-storey Framed Structures | Precast

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Concrete ... Structures 2nd Edition

Nowadays, the use of precast reinforced and prestressed concrete for multi-storey framed buildings is widely regarded as an economic, structurally sound and architecturally versatile building method. Design concepts have evolved to satisfy a wide range of commercial and industrial building needs.

Multi-storey Precast Concrete - Startseite
Precast concrete frames involve an entire structure being fabricated off-site. FP

McCann manufactures three main types of precast frame construction: Portal Frames; Column and Beam; Crosswall Construction; Precast Portal Frames.

Precast portal frames can be defined as two-dimensional rigid frames that have a rigid joint between the precast column and beam.

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Car Parks & Frames | Structural Precast Concrete | FP McCann

Precast concrete floor units are widely used in all types of building. It is estimated that 50% of multi-storey steel framed buildings use precast concrete floors. The precast concrete floor unit is used to span between supporting steel beams as an alternative to in-situ concrete and metal decking.

Precast Concrete Floors in Steel Framed Buildings

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.

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Framed Structures Book ... 2nd Edition

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.

Multi-Storey Precast Concrete Framed Structures, 2nd ...

Concrete frames can be precast (manufactured off site), or cast on site. Precast concrete frames are typically used for single-storey and low-rise structures. The concrete members are transported to site where a crane then lifts and places them into position to construct the frame: For more information, see Precast connections.

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Concrete frame - Designing Buildings Wiki

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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.

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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

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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.

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

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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.

Precast concrete design, manufacture and construction is carried out to the highest standards of exactness--and yet much of

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the knowledge is restricted to the precast industry itself. Hence there is a need for a comprehensive reference work for structural engineers and architects. This book provides just such a work, covering the design, detailing and construction of precast skeletal structures. Architectural matters, such as integrated structural building facades, are explained against a background of recent case studies.

Structural design methods featured include frame and component analysis, precast floors, composite construction, diaphragm action, connections and frame stability.

There are also chapters on design for robustness and temporary stability during frame erection. The text contains state-of-the-art information, together with numerous worked examples borne out of the author's many years of practical experience in precast concrete design and construction. These include the

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preliminary design of a four storey structure, and over 14 problems in connection design alone.

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

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frame stability, together with extensive specifications for precast concrete structures. The book is extensively illustrated with over 500 photographs and line drawings.

The new edition of Volume 4 of this well-known five volume series deals with more complex multi-storey and industrial/commercial buildings. The new edition has been revised to bring it into line with the series design and includes new details on structural sealant glazing, solid brick and block internal walls, and metal stud partitions for non-loadbearing partitions.

Building with precast concrete elements is one of the most innovative forms of construction. This book serves as an introduction to this topic, including examples, and thus supplies all the

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information necessary for conceptual and detailed design.

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.

Connections are among the most essential parts in precast structures. Their performance relates to the structural limit states, as well as to manufacture of the precast elements and erection and maintenance of the structure itself. Proper design of connections is one major key to a

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successful prefabrication. The principal aim of fib Bulletin 43 is to encourage good practice in the design of structural connections in precast concrete structures. This is achieved through a good understanding of structural connections as parts of the overall structural system and of basic force transferring mechanisms. The bulletin consists of two parts; the first part concerns general considerations and philosophy in the design of structural connections, and the second part deals with basic force transferring mechanisms within structural connections. The main focus is on the design of structural connections with regard to their structural function in ordinary design situations in the serviceability and ultimate limit states, and in accidental/abnormal design situations, like fire, lack of fit and impact/accidental loads. Other aspects considered include production, handling

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and site erection of elements, building physics, durability and maintenance. Bulletin 43 applies to structural connections for precast concrete buildings, although the information on basic force transfer mechanisms can also be applicable to other types of prefabricated structures.

This book provides the reader with a consistent approach to theory of structures on the basis of applied mechanics. It covers framed structures as well as plates and shells using elastic and plastic theory, and emphasizes the historical background and the relationship to practical engineering activities. This is the first comprehensive treatment of the school of structures that has evolved at the Swiss Federal Institute of Technology in Zurich over the last 50 years. The many worked examples and exercises make this a

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textbook ideal for in-depth studies. Each chapter concludes with a summary that highlights the most important aspects in concise form. Specialist terms are defined in the appendix. There is an extensive index befitting such a work of reference. The structure of the content and highlighting in the text make the book easy to use. The notation, properties of materials and geometrical properties of sections plus brief outlines of matrix algebra, tensor calculus and calculus of variations can be found in the appendices. This publication should be regarded as a key work of reference for students, teaching staff and practising engineers. Its purpose is to show readers how to model and handle structures appropriately, to support them in designing and checking the structures within their sphere of responsibility.

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