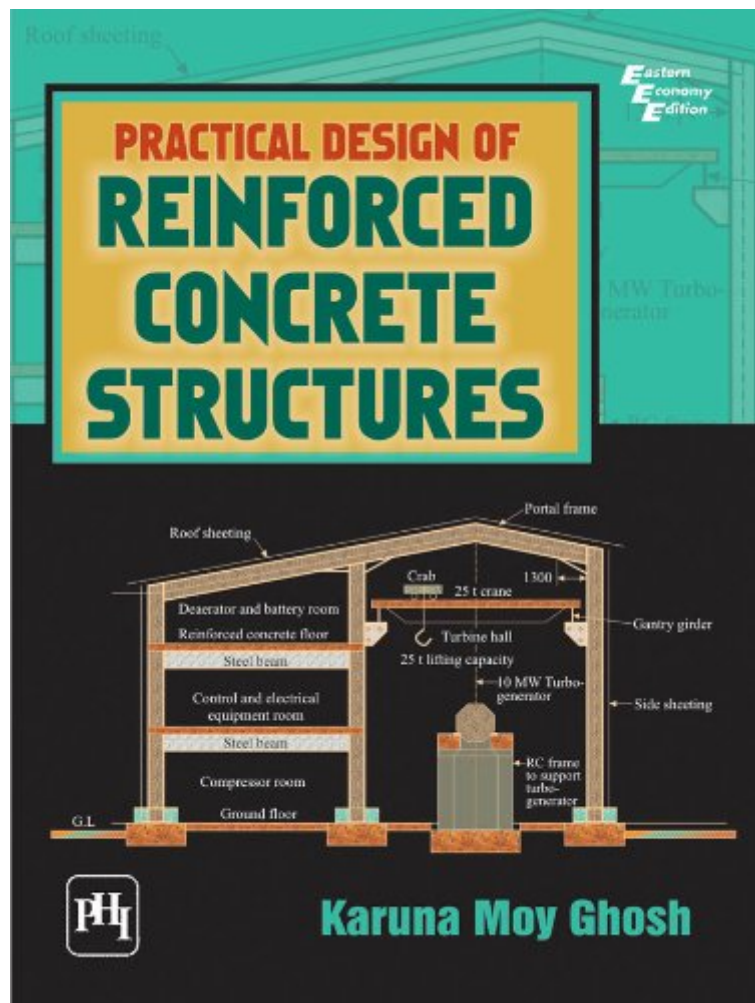




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Practical Design Of Reinforced Concrete Structures



Synopsis

This book is a comprehensive presentation of the practical aspects of analysis and design of reinforced concrete structures. Written on the basis of the British (BS) and European (Eurocode) codes of practices, this book is primarily meant for the undergraduate students of civil engineering. It will also be highly useful for structural engineers working in the fields of design, consultancy and construction involving reinforced concrete structures. The text is organized into four parts, each dealing with the analysis and design of a specific type of reinforced concrete structure. The first part covers the multi-storeyed administrative/office building. The second part deals with the elevated storage bin structure used in steel plants. The elevated structural framework subjected to mechanical vibration is the subject matter of the third part. The fourth and final part discusses the precast reinforced concrete workshop building. The important activities required to be carried out prior to structural analysis – structural arrangement planning, materials selection, examination of buildability and environmental impact – are covered in the initial chapters in each part. This is followed by a step-by-step presentation of the analysis and design procedures for various structures and structural elements/members. The book presents the various structural analyses and design calculations in an exhaustive manner. The text is illustrated with a large number of visuals. Important additional information relevant to this field can be found in the references provided at the end of various chapters. The STRAP structural analysis program for the multi-storeyed administrative/office building, and the vibration analysis of the elevated reinforced concrete framed structure, are provided in the Annexures to the book.

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