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Handbook of Structural Engineering | Taylor & Francis Group

Structural engineering theory is based upon applied physical laws and empirical knowledge of the structural performance of different materials and geometries. Structural engineering design uses a number of relatively simple structural concepts to build complex structural systems.

Continuing the tradition of the best-selling Handbook of Structural Engineering, this second

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This book provides an understanding of the fundamental theories and practice behind the creation of architectural structures. It aids the development of an intuitive understanding of structural engineering, bringing together technical and design issues. The book is divided into four sections: 'Structures in nature' looks at structural principles found in natural objects. 'Theory' covers general structural theory as well as explaining the main forces in engineering. 'Structural prototypes' includes examples of modelmaking and load testing that can be carried out by students. The fourth section, 'Case studies', presents a diverse range of examples from around the world – actual buildings that apply the theories and testing described in the previous sections. This accessible, informative text is illustrated with specially drawn

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The Structural Engineer's Pocket Book British Standards Edition is the only compilation of all tables, data, facts and formulae needed for scheme design to British Standards by structural engineers in a handy-sized format. Bringing together data from many sources into a compact, affordable pocketbook, it saves valuable time spent tracking down information needed regularly. This second edition is a companion to the more recent Eurocode third edition. Although small in size, this book contains the facts and figures needed for preliminary design whether in the office or on-site. Based on UK conventions, it is split into 14 sections including geotechnics, structural steel, reinforced concrete, masonry and timber, and includes a section on sustainability covering general concepts, materials, actions and targets for structural engineers.

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