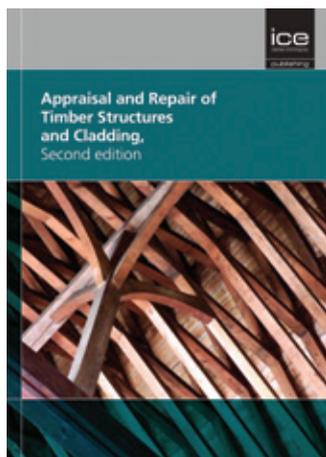


New titles in Structures & Buildings



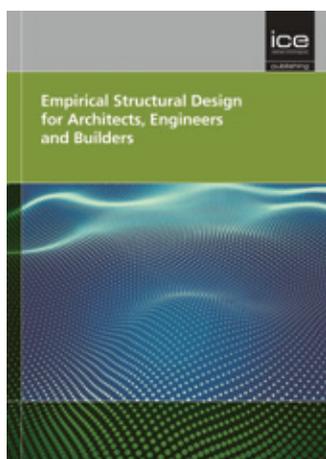
Appraisal and Repair of Timber Structures and Cladding, Second edition

Peter Ross and Andrew Lawrence

Appraisal and Repair of Timber Structures and Cladding, Second edition is a comprehensive and fully updated guide focusing on the appraisal and repair of timber structures with reference to Eurocode 5.

Written by two leading experts in the field of timber engineering, this book includes advice on construction forms from medieval times to the present day. This unique approach ensures that all the periods of timber construction are covered, with specifications, analytical advice and worked examples all in accordance with current best practice. This book will appeal to structural and conservation engineers, designers and architects working in the field of timber structures, both ancient and modern.

978-0-7277-6178-1 / 320pp / 246 x 189mm / September 2018 / Paperbound / £80.00 / \$135.00



Empirical Structural Design for Architects, Engineers and Builders

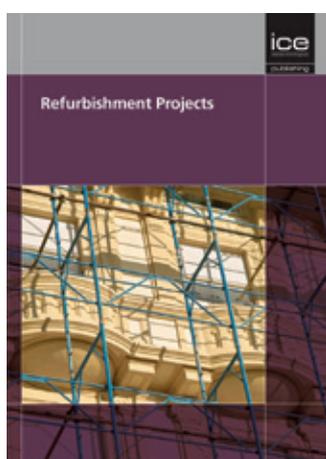
Thomas Boothby

Empirical Structural Design for Architects, Engineers and Builders provides an explanation of empirical design as a legitimate means of making the important structural design decisions. It will discuss completing a building design on the basis of proven ratios, simple rules of thumb, standard practices and acceptable minimum sizes.

Written by Thomas Boothby, the book will appeal due to the following:

- Accessible to all professionals in the building design and construction process.
- International appeal as the text includes both metric and imperial units.
- Reduction of major preliminary structural decisions to simple rules.

978-0-7277-6207-8 / 184pp / 246 x 189mm / June 2018 / Paperbound / £40.00 / \$52.00



Refurbishment Projects

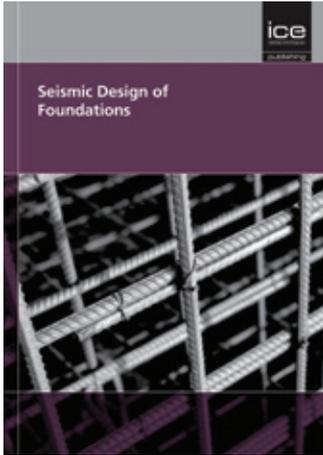
David Oloke

Refurbishment Projects is a qualitative reference tool for exploring health and safety management and risk management of alteration, renovation and refurbishment projects. As the need to make old stock more energy efficient increases in line with the requirements of sustainable development, the number of extensions, loft conversions, basement constructions and other retrofit projects, has increased.

Refurbishment Projects explores the planning of alteration and refurbishment construction projects, involving complex activities such as collecting and analysing various sources of information related to the existing structure, end-of-lifecycle operations and the safety risks of potentially unknown conditions.

978-0-7277-6159-0 / 264pp / 210 x 148mm / July 2018 / Paperbound / £50.00 / \$85.00

New titles in Structures & Buildings



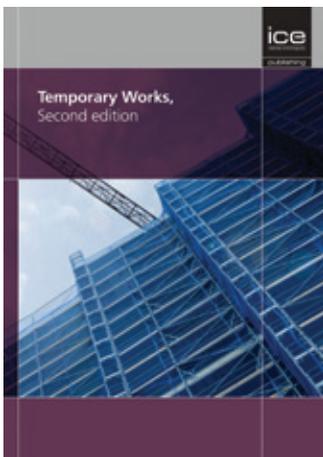
Seismic Design of Foundations

Subhamoy Bhattacharya, Domenico Lombardi and Rolando P Orense

With easy-to-understand explanations of the basic concepts, *Seismic Design of Foundations* examines recent and worldwide research outputs and post-earthquake reconnaissance case studies and offers practical means of applying them to the real world. Each case study also provides worked examples of new and innovative findings that reveal background information behind the codes of practice in various parts of the world as well as the lessons learned from recent large-scale earthquakes.

Seismic Design of Foundations presents state-of-the-art information which will be ideal for any student studying postgraduate civil engineering or structural engineering as well as researchers working in the field of seismic design.

978-0-7277-6166-8 / 376pp / 246 x 189mm / August 2018 / Hardbound / £85.00 / \$115.00



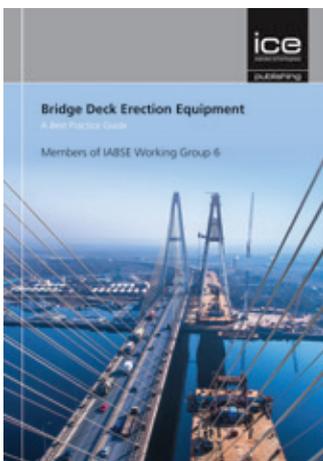
Temporary Works, Second edition

Edited by Eur Ing Peter Pallett and Ray Fillip

Temporary Works provides authoritative and comprehensive guidance on temporary works for practising engineers. Written by more than twenty industry experts, this book considers the how and why of current methods across a wide range of topics and outlines possible alternatives to each method. Chapters also cover the principles of design and provide extensive references to further reading.

Covering all sub-specialties of this wide-ranging topic in a single resource, this book is an invaluable resource for temporary and permanent works designers, temporary works co-coordinators and supervisors, and also contractors looking to minimise costs, maximise efficiency and ensure the safety of those working on site.

978-0-7277-6338-9 / 496pp / 234 x 156mm / December 2018 / Hardbound / £130.00 / \$170.00



Bridge Deck Erection Equipment: A Best Practice Guide

Members of IABSE Working Group 6

The bridge construction industry has moved with great speed towards mechanized construction solutions using specialized bridge deck erection equipment to shorten construction programmes and reduce costs. An increased level of knowledge related to these modern construction processes will ensure more efficient use of these methods, facilitate better decision-making processes and improve safety on site. In *Bridge Deck Erection Equipment: A Best Practice Guide*, international experts provide the industry with best practice advice and guidance to building bridge decks economically, practically and, above all, safely.

This highly practical best-practice guide will be of interest to all those involved in bridge construction from bridge owners and contractors to designers, consultants and construction equipment suppliers. It will particularly appeal to those with management responsibility within their companies whilst junior bridge engineers will find essential guidance for design or checking procedures.

978-0-7277-6193-4 / 408pp / 246 x 189mm / May 2018 / Hardbound / £100.00 / \$170.00

New titles in Structures & Buildings



Underground Spaces Unveiled

Han Admiraal and Antonia Cornaro

Underground Spaces Unveiled is a broad overview of the concept of underground space development investigating the issues that are associated with the sustainable development of urban underground space.

This book shows the benefits, the possibilities and world-class examples of underground space development and how that translates into sustainable urbanisation. Written by an engineer and an urban planner ensuring a balanced view and wide appeal, the book is intended for civil engineers, urban planners, urban designers and architects as well as anyone involved with the future of urban development.

978-0-7277-6145-3 / 232pp / 210 x 210mm / March 2018 / Hardbound / £70.00 / \$125.00



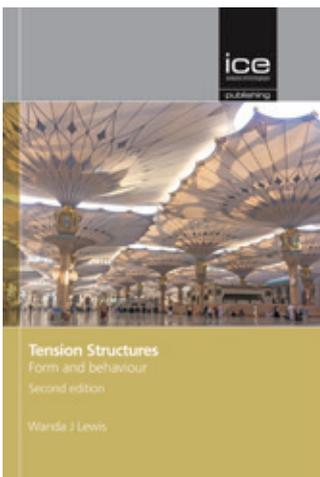
Recommendations for the Inspection, Maintenance and Management of Car Park Structures, Second edition

Edited by Chris Whapples and Leo McKibbins

Recommendations for the Inspection, Maintenance and Management of Car Park Structures, Second edition provides technical guidance, and establishes a benchmark for good practice for car park owners, operators, and engineering consultants.

Against the background of new health and safety legislation, this second edition of the guidance has been extensively updated to provide advice on the development of an effective life-care plan based on regular inspection, assessment, maintenance and management, and incorporates a risk-assessed approach to help ensure car park structures are safely maintained.

978-0-7277-5839-2 / 152pp / 297 x 210mm / January 2018 / Paperbound / £55.00 / \$95.00



Tension Structures: Form and Behaviour, Second edition

Wanda J Lewis

Tension Structures, Second edition delivers a unique coverage of the topic of tension structures ranging from a variety of pre-stressed cable net and fabric roofing forms to suspension bridge cables. The emphasis is on finding minimum energy forms of these structures by analogy to nature.

The book compiles a vast amount of knowledge while providing an accessible entry to a rather specialised field. The mathematical expositions are set at an undergraduate level and, wherever possible, non-mathematical language is used to aid the understanding of fundamental concepts.

978-0-7277-6173-6 / 240pp / 234 x 156mm / January 2018 / Hardbound / £60.00 / \$100.00

Also in Structure & Buildings

Bridge Construction Equipment

Marco Rosignoli

978-0-7277-5808-8 / 496pp / 2013 / Hardbound / £98.00 / \$150.50

Bridge Launching, Second edition

Marco Rosignoli

978-0-7277-5997-9 / 376pp / 2014 / Hardbound / £92.00 / \$145.50

Bridge Monitoring [CSIC Series]

Campbell R. Middleton, Paul R.A. Fidler and Paul J. Vardanega

978-0-7277-6059-3 / 136pp / 2016 / Hardbound / £70.00 / \$113.50

Conceptual Structural Design: Bridging the Gap between Architects and Engineers, Second edition

Olga Popovic Larsen

978-0-7277-6110-1 / 240pp / 2016 / Paperbound / £42.00 / \$73.50

Concrete bridge strengthening and repair

Iain Kennedy-Reid

978-0-7277-3603-1 / 128pp / 2009 / Paperbound / £68.00 / \$105.50

Concrete Durability

Marios Soutsos (ed)

978-0-7277-3517-1 / 704pp / 2009 / Hardbound / £186.00 / \$280.50

Earthquake Design Practice for Buildings, Third edition

Edmund Dwight Booth

978-0-7277-5794-4 / 370pp / 2014 / Hardbound / £74.00 / \$125.50

ICE Manual of Bridge Engineering, Second edition

Gerry Parke and Nigel Hewson (eds)

978-0-7277-3452-5 / 760pp / 2008 / Hardbound / £244.00 / \$380.50

ICE Manual of construction materials: Metals and alloys

Sha (ed)

978-0-7277-4063-2 / 120pp / 2010 / Paperbound / £39.00 / \$73.00

ICE Manual of construction materials: Polymers and Polymer Fibre Composites

Hollaway (ed)

978-0-7277-4120-2 / 148pp / 2010 / Paperbound / £39.00 / \$73.00

ICE Manual of Structural Design: Buildings

Bull (ed)

978-0-7277-4144-8 / 148pp / 2012 / Hardbound / £166.00 / \$280.50

