

## MONITOR: BOOKS

## Books

## REVIEWS

**Ramp: risk analysis and management for projects (3rd edition)**

by Institution of Civil Engineers and Institute and Faculty of Actuaries, published by ICE Publishing, 2014, £40, reviewed by **Fulcieri Maltini**, FM Consultants Associates, France



This new edition of the *Ramp* guide has been substantially revised to take into account the latest thinking about management of uncertainty.

It has clearer ways to present risk to decision-makers through simple scenarios and risk summaries, and better criteria for determining whether risk responses should be adopted. It also includes methods of coping with social and environmental risks in infrastructure projects.

A new part of the guide sets out the *Ramp* process in a working document for practitioners, making the learning process much easier.

This practical book is aimed at senior directors and planners, engineers, consultants, project managers, financiers, lawyers and actuaries.

**European building construction illustrated**

by Francis Ching and Mark Mulville, published by Wiley, 2014, £34.99, reviewed by **James O'Donnell**, Arup, Melbourne, Australia



For a younger engineer looking to broaden their understanding of how a

building comes together, or a senior engineer keen for a refresh, this excellent guide will help provide background information on the architectural, environmental and practical construction-related aspects of a building.

The book is modelled on the journey of a building's construction, beginning with the theory of site analysis and topography through to detailing different types of foundations, wall and roof systems and finishes. An appendix provides further useful information and references.

If a highly descriptive and well-illustrated guide to building construction is what you are after, look no further.

**Construction cost management: learning from case studies (2nd edition)**

by Keith Potts and Nii Ankrah, published by Routledge, 2014, £157.50, reviewed by **Fulcieri Maltini**, FM Consultants Associates, France



In this updated and expanded second edition, Potts and Ankrah examine key issues in construction cost management across the building and civil engineering sectors in the UK and overseas.

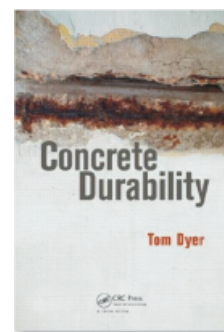
Numerous project case studies include Heathrow Terminal 5, Crossrail and London 2012.

Whole-life costing, value management and risk management are also addressed and self-test questions at the end of each chapter support independent learning.

This comprehensive and well-written book is essential reading for construction managers and students as well as built-environment practitioners with cost or project management responsibilities.

**Concrete durability**

by Thomas Dyer, published by CRC Press, Taylor and Francis Group, 2014, £48, reviewed by **Jimmy Kim**, University of Colorado Denver, USA



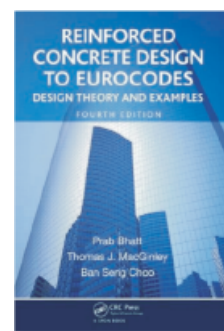
Thomas Dyer has produced a well-written technical reference on the durability of concrete. It covers various topics, from material deterioration to design approaches, and includes detailed flow charts for designing durable concrete according to the British specifications.

Surface and cathodic protection methods are covered along with repair methods such as moisture control, strengthening, resistivity and anodic area control.

In summary, this book provides practical knowledge along with substantial technical depth, and I recommend it for practitioners, researchers and graduate students.

**Reinforced concrete design to Eurocodes: design theory and examples (4th edition)**

by Prab Bhatt, Thomas J. MacGinley and Ban Seng Choo, published by CRC Press, Taylor and Francis Group, 2014, £34.95, reviewed by **James O'Donnell**, Arup, Melbourne, Australia



It is 8 years since the popular third edition of this guide was published in

## MONITOR:BOOKS

### NEW BOOKS

The ICE library maintains one of the most comprehensive collections of civil engineering books in the world, including all titles from ICE Publishing (shown in bold below). New books received in the past 3 months include the following.

A lever long enough: a history of Columbia School of Engineering and Applied Science since 1864	R McCaughey	£27.50
A stratigraphical basis for the anthropocene	C N Waters	£90.00
Barry's advanced construction of buildings (3rd edition)	S Emmitt	£40.31
Barry's introduction to construction of buildings (3rd edition)	S Emmitt	£37.62
Building Europe on expertise: innovators, organizers, networkers	M Kohlrausch	£47.31
Deformation structures and processes within the continental crust	S Llana Funez	£90.00
Design for movement in buildings	S Alexander	£50.00
Electricity industry review 18	Electrica Services Limited	£275.00
Good practice on the testing and verification of protection systems for buildings against hazardous ground gases	H Mallett	£120.00
Handbook for construction planning and scheduling	A Baldwin	£60.48
Heathrow: from tents to Terminal 5	I Anderson	£17.99
Hydrocarbon exploration to exploitation west of Shetlands	S J C Cannon and D Ellis	£90.00
Manual of soil laboratory testing. Volume III: effective stress tests (3rd edition)	K Head	£125.00
Organisation Todt: from autobahns to the Atlantic wall	J Christopher	£19.99
<b>Port designer's handbook (3rd edition)</b>	<b>C Thoresen</b>	<b>£120.00</b>
Railways at the end of the world – in Patagonia and the South Atlantic Islands	M Coombs	£49.95
<b>Ramp: risk analysis and management for projects (3rd edition)</b>	<b>Institution of Civil Engineers</b>	<b>£40.00</b>
Sediment-body geometry and heterogeneity: analogue studies for modelling the subsurface	A Martinius	£85.00
Sediment provenance studies in hydrocarbon exploration and production	R Scott	£100.00
Stone in historic buildings: characterization and performance	J Cassar	£90.00
<b>Structural engineering of transmission lines</b>	<b>P Catchpole</b>	<b>£90.00</b>
The Arbitration Act 1996: a commentary (5th edition)	B Harris	£107.45
The Variscan orogeny: extent, timescale and the formation of European crust	K Schulmann	£120.00
Understanding structures: analysis, materials, design (5th edition)	D Seward	£42.99
Water resources in the built environment: management issues and solutions	C A Booth	£94.01

All books can be borrowed from the ICE library on the first floor of 1 Great George Street, London, SW1P 3AA from 8.30 am to 6.30 pm, Monday to Friday. ICE Publishing titles can also be purchased from the ICE library or ordered by calling +44 1892 832299, emailing [orders@icepublishing.com](mailto:orders@icepublishing.com) or by visiting [www.icevirtualibrary.com/content/books](http://www.icevirtualibrary.com/content/books).

2006. The fourth edition includes new examples of Eurocode rules, revisions to punching shear in slabs, worked examples of strut-and-tie design and coverage of new cements.

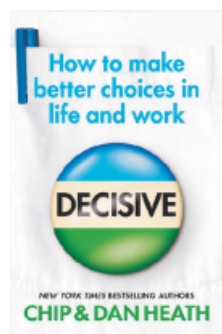
Numerous worked examples provide ample opportunity for readers to master the material and further their understanding of the topic, supported by commentary, illustrations and background to the Eurocodes.

This is an essential reference that summarises Eurocode design of reinforced concrete, provides background to key clauses and detailed step-by-step worked examples. It is an exemplary text for students and practising engineers alike.

### Decisive: how to make better choices in life and work

by Chip Heath and Dan Heath, published by Random House, London, 2014, £5.98, reviewed by **Ian Jenkinson**, Regensustain Ltd, UK

*Decisive* discusses decision making where gut instinct, or previous experience, is unlikely to be of great value in determining the best way to proceed.



It outlines a structured approach to thinking about a problem, defining a range of possibilities, developing options and choosing a solution. Iterative as well as one-off decisions are discussed, along with ways of setting limits and boundaries to test the validity of the decision and when best to abandon a failing decision. A range of problems from design through to product liability are used to illustrate the approach.

The book's subtitle may alienate the serious reader but this would be a mistake. It won the 'practical manager' category of this year's Chartered Management Institute management book of the year competition. I recommend it to all engineers.