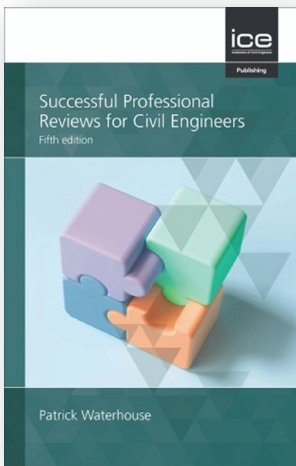


## Books

### REVIEWS



#### Successful professional reviews for civil engineers (5th ed.)

by Patrick Waterhouse, published by ICE Publishing, 2022, £33, reviewed by **Paula McMahon**, Sir Robert McAlpine, UK

This book provides comprehensive up-to-date guidance to those working towards the Institution of Civil Engineers professional review. The text takes the reader through the whole process, from the role and purpose of professional qualifications to post-review advice in the event of an unsuccessful review.

Each section provides details of every stage and includes an in-depth understanding of the process, assessment methods, focus areas and topics. Examples, anecdotes, personal experiences and advice provide the reader with tools to assist in their individual preparations.

The book is targeted at those aiming for incorporated or chartered status who are nearing completion of their initial professional development. However, much of the guidance is very relevant to aspiring members of all grades and stages as well as those who mentor them.

Even if you have had an older version of this book, the extras and amendments make this fifth edition a worthwhile addition to your bookshelf.

#### FIDIC 2017: A definitive guide to claims and disputes

by Nicolas Alexander Brown, published by ICE Publishing, 2021, £125, reviewed by **Dian Saunders**, Agate Regional Consultancy Services, Nassau, Bahamas



The book provides a complete guide for civil engineers with a basic level of knowledge of claims, dispute avoidance and dispute resolution under International Federation of Consulting Engineers (Fidic) 2017 (second edition) contracts.

The reader is taken on a journey from development of an initial claim event through to binding and final court decisions. The author's reliance on court decisions to clarify rules and principles in the contracts is a reminder of the complexity of dispute resolution when dispute avoidance is not embraced.

Important definitions are consistently and conveniently provided throughout the text. There is detailed analysis, explanation and comparison of the Fidic Red, Yellow and Silver 2017 books with respect to claims and disputes. Diagrams, tables and flow charts help the reader gain a full appreciation of the timelines, options, procedures, processes and comparative terminologies associated with specific acts and omissions by the contracting parties.

This superbly written book has significant professional development value as well as important practical day-to-day knowledge. I recommend it as an addition to all private and public libraries.



#### Computer-aided highway engineering

by Sandipan Goswami and Pradip Sarkar, published by CRC Press, 2021, £130, reviewed by **Abiodun Akinyemi**, Skanska, UK

This book effectively covers key aspects of civil engineering from a highway design perspective. It is particularly useful for the computer-aided design of highway alignments, interchanges, earthworks, pavements and drainage. It starts from fundamental principles and, through a separate online resource, provides real-world cases through tutorial examples.

Readers will need a basic understanding of some of the topics covered as there are very few definitions of technical terms. Also lacking is much coverage of topics such as geotechnics, environment and carbon dioxide accounting. It should be noted, too, that the example design drawings provided would not really be sufficiently detailed for construction.

Despite these shortcomings, this is a well-researched book that reflects the depth and breadth of the authors' experience.

## 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 acquired in the past 3 months include the following (\* indicates e-book only).

A cost based approach to project management: planning and controlling construction project costs*	M Hanioglu	£44.99
Advances in urbanism, smart cities, and sustainability	A Biswas <i>et al.</i> (eds)	£130.00
An encyclopaedia of world bridges	D McFetrich	£35.00
Analysis and design of prestressed concrete*	D Hu	£135.00
Analysis of structures on elastic foundation: incorporating the spectral method of boundary elements	L Petrosian	£150.00
Calculating whole life / totex carbon	N Bird <i>et al.</i>	£24.00
Carbon: a field manual for building designers*	M Kuittinen <i>et al.</i>	£47.50
Civil and environmental engineering for the Sustainable Development Goals: emerging issues	M Antonelli and G Della Vecchia (eds)	£24.99
Clean technologies and sustainable development in civil engineering	N Cobirzan <i>et al.</i> (eds)	£168.00
Compendium of civil engineering education strategies: case studies and examples*	H Jackson and K Tarhini	£69.00
Computer aided bridge engineering*	S Goswami	£219.99
Constructing a consumer-focused industry: cracks, cladding and crisis in the residential construction sector	T Moore and D Oswald	£44.99
Cyber-physical systems in the construction sector*	W Alaloul (ed.)	£125.00
Dampness in dwellings: causes and effects	S Battersby <i>et al.</i>	£44.99
Dams safety and society*	L Spasic-Gril	£74.99
Design of steel structures: materials, connections, and components	L Jiang <i>et al.</i>	£134.00
Designing for the climate emergency: a guide for architecture students	E Donovan <i>et al.</i>	£35.00
<b>Digital twins in the built environment: fundamentals, principles and applications</b>	<b>Q Lu <i>et al.</i></b>	<b>£110.00</b>
Earthquake science and engineering*	O Aydan	£130.00
Energy from waste: production and storage	R Gupta and T Nguyen	£140.00
Fundamentals of wastewater treatment and engineering*	R Riffat and T Husnain	£74.99
Introduction to desalination: principles, processes, and calculations*	R Dupont and L Theodore	£129.00
Manual of structural design: structural principles - suitable spans - inspiring works*	E Moller	£96.00
Natural building techniques: a guide to ecological methods and materials*	T Woolley	£20.00
Non-destructive diagnosis of concrete floors: methods and case studies*	L Sadowski and J Hola	£74.99
Passive vibration control of structures*	S Madhekar and V Matsagar	£150.00
Philosophies of structural safety and reliability	I Elishakoff and V Raizer	£120.00
Rail infrastructure resilience: a best-practices handbook*	R Calcada and S Kaewunruen (eds)	£118.00
Railway engineering: design, construction and operation	N Bush (ed.)	£111.65
Recent advances in dam engineering	B Asthana and D Khare	£109.99
Recycling and reusing of engineering materials	W Khan <i>et al.</i>	£175.00
Routledge handbook of resilient thermal comfort	F Nicol <i>et al.</i> (eds)	£190.00
<b>Successful professional reviews for civil engineers (5th ed.)</b>	<b>P Waterhouse</b>	<b>£33.00</b>
Supertall: how the world's tallest buildings are reshaping our cities and our lives	S Al	£21.99
Survey and assessment of traditionally constructed brickwork*	M Jenkins	£49.99
The collapse frequency of structures*	D Prose	£89.99
The Environment Act 2021: a guide for planners and developers	T Graham	£40.00
The tower and the bridge: the new art of structural engineering	D Billington	£17.99
Transportation in a net zero world*	K Logan <i>et al.</i>	£109.99
Turbulence in open channels and river flows*	M Sanjou	£100.00
Wave, wind, and current power generation*	V Lyatkher and Z Rahman	£170.00

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