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CONTENTS

- Built environment and transport 3
- Law and regulations 8
- Structures and buildings 12
- Professional development 16
- Bestsellers 18
- Agents and representatives 19
- Notes 20
- How to order Back cover

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ICE Manual of Blue-Green Infrastructure

Edited by Carla-Leanne Washbourne and Claire Wansbury

ICE Handbook of Blue-Green Infrastructure is the practical guide to designing and creating different aspects of blue-green solutions. It draws together an exceptional breadth of material to help practitioners explain the value of blue-green infrastructure to others, embed it into new development projects, retrofit to older ones, and provide for its long-term successful maintenance. Coverage includes introductory descriptions of key concepts through to more specific, targeted chapters focusing on particular project types, landscapes and approaches. Throughout the manual, there is an emphasis on how to effect blue-green infrastructure solutions in the real world, underpinned by benchmarking good practice and examples of previously successful projects. This book will be ideal for practicing engineers, master planners, landscape architects, water design specialists, ecologists and others in consultancy, development companies, and local planning authorities.

About the editors
Claire Wansbury is an Atkins Fellow and Associate Director of Ecology Infrastructure at Atkins, London, UK. Carla-Leanne Washbourne is Lecturer in the Department of Science, Technology, Engineering & Public Policy at University College London, UK.

978-0-7277-6542-0  |  360pp  |  Hardback  |  December 2022  |  £145.00  |  $217.50

Sustainable Infrastructure: Principles into practice, Second edition

Richard A Fenner, Judith Sykes and Charles Ainger

Fully updated, this new edition of Sustainable Infrastructure: Principles into practice is an essential practical handbook to help engineers deliver sustainable outcomes. Covering each stage of the project lifecycle, from planning and development through to implementation, in-use and end-of-life phases, the book presents a set of fundamental principles and tools to guide sustainable decision making. Sustainable Infrastructure, Second edition is an essential reference for civil engineers, a broad range of built environment professionals and also graduate students preparing to enter the industry.

About the authors
Richard Fenner BSc (Hons) PhD CEng MICE FCiWEM is a Chartered Civil Engineer and Professor of Engineering Sustainability at Cambridge University, UK. He has published over 100 journal papers, book chapters and conference papers. Judith Sykes MEng, MPhil, CEng, FICE is Senior Director at Expedition Engineering, UK and Useful Projects, UK. she has 20 years’ experience in civil engineering, infrastructure masterplanning, sustainable design and strategy. Charles Ainger MSc, FICE, FRSA, MCiWEM is a former Sustainable Development Director for MWH’s UK operations. He has extensive experience in water and environmental engineering.

978-0-7277-6671-7  |  384pp  |  Paperback  |  November 2022  |  £65.00  |  $97.50
ABOUT HS2
The main construction of HS2, Britain's high-speed rail network, began in September 2020 when Main Works Civils Contractors moved from enabling works, scheme design and preparatory work to full construction of the railway. The low-carbon network will link London and Birmingham and extend services to the North and Scotland, serving more than 25 stations. High-speed trains will reach speeds of 225mph and transform journey times. HS2 will play a key role in rebalancing the UK economy, supporting more than 30,000 jobs at peak construction.

High Speed Two (HS2): Infrastructure Design and Construction - Volume 3

High Speed Two

This volume of *High Speed Two: Infrastructure Design and Construction* from the HS2 Project, contains a collection of papers submitted to HS2 Ltd’s Technical Papers Competition. It is divided into two sections: ground engineering (geotechnics, groundworks and earthworks) and structural engineering (bridges, viaducts, tunnels and underground structures). Featured contributions come from consultants, contractors, suppliers and third-party stakeholders involved in developing HS2. The papers examine the challenges of this unprecedented project and learning in planning, design, construction and management for major railway infrastructure projects. For more papers from HS2 Ltd’s Technical Papers Competition, please see *High Speed Two (HS2): Infrastructure Design and Construction (Volume 4)*, the companion to this volume.

978-0-7277-6691-5 | 520pp | Hardback | November 2022 | £80.00 | $120.00

High Speed Two (HS2): Infrastructure Design and Construction - Volume 4

High Speed Two

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<th>Date</th>
<th>Format</th>
<th>Price</th>
<th>USD Price</th>
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*Mark Key*

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Purchasers of the print book can access the supplementary digital checklists by contacting: sales@icepublishing.com.

**About the author**

Dr Mark Key DBEnv MSt (Cantab) BSc (Hons) MIIOB MCAVE C.Build E MIFireE MIMs MInstLM has over 35 years’ experience in construction and civil engineering. He has spent the last 12 years working as a Head of Building Control in local government and is the author of Sustainable Masonry Construction (IHS BRE Press, 2009).

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*Samantha Riggs, Anna Willetts and Leslie Heasman*

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**About the authors**

Samantha Riggs is a criminal defence barrister at 25 Bedford Row, UK, and a chartered waste and resources manager. She specialises in defending companies and individuals in environmental, financial and regulatory matters. Anna Willetts is an environmental criminal defence lawyer at gunnercooke llp, UK, and President of the Chartered Institution of Wastes Management. Leslie Heasman, Managing Director and Principal Environmental Chemist, at MJCA, UK, has over 30 years’ experience in waste management.

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Olga Popovic Larsen

Conceptual Structural Design, Third edition addresses a topic that lies at the intersection of architecture and structural engineering. Within a building project, conceptual structural design, and how successfully it has been dealt with, impacts building performance as well as building appearance. Whilst engineers and architects are educated in different fields, the most rewarding projects are where their shared expertise can be utilised in full. This book illustrates how these two professions can be bridged. The first half of this book details the theory and investigates sources of inspiration for developing structural form. This includes what can be learnt from natural forms by using intuition; finding inspiration from precedents; applying understanding of structural principles; utilising physical models for design; as well as using new design tools, construction methods, emerging technology and materials to develop new structural forms. The second part presents real-life case studies showing projects in context and examples of best practice. This fully updated third edition of Conceptual Structural Design, addresses sustainable approaches and circular design. It also features additional online-only bonus material. The book is essential reading for architects and engineers, and for anyone interested in conceptual structural design.

About the author

Olga Popovic Larsen is a Professor in Architecture/Structures in the Schools of Architecture, Design and Conservation at The Royal Danish Academy of Fine Arts (KADK), Copenhagen, Denmark.

978-0-7277-6598-7 | 192pp | Paperback | November 2022 | £55.00 | $82.50

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About the editors

Richard Fish is Director of Richard Fish Consultancy Ltd. He is an independent civil engineering consultant working for and with public and private sector clients specialising in strategic bridge asset management, and bridge maintenance and operation. Graham Cole is a Chartered Civil Engineer and Director of Graham Cole Consultancy Ltd. He provides specialist advice on bridge management, asset management and related transportation matters.

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Will Hughes, Ronan Champion, Sarah Coleman, Yang Chu, Billy Hare and Alexander H. Hay

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*ICE Companion to Engineering Management* is an essential handbook for professionals working towards professional review, civil engineers seeking to develop their career in management roles more generally, and also students embarking on graduate-level courses in engineering management.

**About the authors**

Will Hughes is Emeritus Professor of Construction Management and Economics at the University of Reading, UK. Dr Ronan Champion BSc LLb PhD FRICS FCIOB MCIArb is a Partner of Construction Consulting firm Champion Pearce LLP and part-time lecturer in Construction Contract Law at the School of Construction Management and Engineering at University of Reading, UK. Sarah Coleman is a Director at Business Evolution Ltd. Dr Yang Chu is a risk manager at Scottish and Southern Energy plc (SSE). Professor Billy Hare is Deputy Director of The BEAM Research Centre at Glasgow Caledonian University, UK. Alexander H Hay PhD CEng PEng FICE RSES is Risk Resilience and Security Planning Leader at Southern Harbour. He is also Adjunct Professor and Founding Director of Centre for Resilience of Critical Infrastructure at the University of Toronto, Canada.

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