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J. Bull

Part of the ICE manuals series, *ICE Manual of Structural Design: Buildings* is the essential reference for all structural engineers involved in the design of buildings and other structures. The manual takes a project oriented approach, covering key issues that design professionals face at the outset of a project such as sustainability, risk management and how to understand the client's needs, before going on to cover the core issues of concept design and the detailed design of structural components.

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Portland Cement, 3rd edition Composition, production and properties

L. Struble, P. Livesey, P. del Strother and G.C. Bye

Portland cement is one of the most traditional of construction materials. Rising costs of the energy required for its manufacture and the increasing interest in understanding the mechanisms of concrete deterioration, as well as the importance of optimising the use of Portland cement in high quality concrete, have continued to sustain interest in this important material. The book provides an up-to-date introduction to the raw materials and manufacturing processes of Portland cement. It gives an introductory account of cement composition, manufacture, quality assessment, hydration and resulting microstructure-physical property relationships, and some mechanisms of the chemical degradation of hardened cement paste.

The third edition of *Portland Cement* is fully revised and updated to include the latest British and European Standards for cement and associated test methods as well as recent advances in current chemistry.

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NEW

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T. Lennon

In association with IHS BRE Press

Structural Fire Engineering gives practical design guidance on the application of structural fire engineering to specialist structural engineers: bringing together fire engineering and structural engineering – disciplines which are interlinked in design of structures.

Structural Fire Engineering discusses the European standards in the context of fire engineering design and conformity to the requirements of the regulations. Containing a number of worked examples to illustrate the options for design, this book will primarily demystify the subject of structural fire engineering and identify the available design options to fulfil statutory requirements. The final chapters deal with specific issues which have arisen over the last few years and identify gaps in knowledge in relation to the performance of buildings in fire.

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NEW

Stress Ribbon and Cable-Supported Pedestrian Bridges, 2nd edition

J. Strasky

Stress Ribbon and Cable-Supported Pedestrian Bridges considers how slender concrete decks are used in the design of suspension and cable stayed structures. It looks at their characteristic feature – their rigidity, which is mainly given by the tension stiffness of prestressed concrete decking, so much so that movement caused by pedestrians or wind does not register as discomfort by users. Starting with a brief history this book describes structural types, addresses general design criteria, current technology, static and dynamic analysis and discusses the results of the static and dynamic loading tests.

Illustrated throughout, *Stress Ribbon and Cable-Supported Pedestrian Bridges* provides numerous international examples and case studies of outstanding structures.

This new edition has been fully updated to bring text in to line with Eurocodes and includes new examples and case studies to showcase the advances in design techniques and testing.

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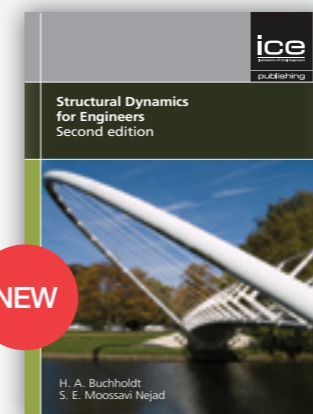
A. Beard

Following catastrophic tunnel fires that have occurred worldwide, it has become essential to gain a much better understanding of all aspects of tunnel fire safety, from basic science to acceptable risk and the law. The fundamental principles which have emerged from research and investigation in this field, form the bed-rock for decision making on how tunnels may be designed, or up-graded and operated in an acceptable way.

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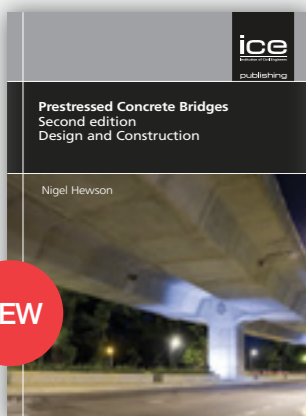
H. A. Buchholdt and S. E. Moossavi Nejad

Provides a thoroughly updated introduction to the vibration of structures, dynamic testing and the dynamic behaviour of structures. This new edition also discusses the theory underpinning common computer design and modelling packages.

Since publication of the first edition there has been increased level of construction of taller buildings and longer-span bridges which are susceptible to earthquakes and strong winds and a greater knowledge of dynamics and dampening of structural vibrations is required. Computer technology and programmes have also advanced rapidly and up-to-date coverage of these aspects is included. The introduction of Eurocodes is also considered.

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Structures and Buildings



NEW

Prestressed Concrete Bridges, 2nd edition Design and Construction

N. Hewson

Concrete remains the most common material for bridge construction around the world, and prestressed concrete is frequently the material of choice. Extensively illustrated throughout, this invaluable book brings together all aspects of designing concrete bridge decks into one comprehensive volume.

Commonly used for bridges with spans between 25m and 450m, prestressed concrete bridges provide economic, durable and aesthetic solutions in most situations. This book clearly explains the principles behind the design and construction of prestressed concrete bridges and illustrates the interaction between the two. All the different types of deck arrangement and the construction techniques used are covered.

The second edition has been updated for the move to Eurocodes and the content expanded in areas, such as: the inspection, maintenance and demolition of prestressed concrete bridges; integral bridges; temporary works and construction requirements.

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NEW

Bridge Design to Eurocodes: UK Implementation

S. Denton

As of April 2010, Eurocodes replaced British Standards as the principal design standards for bridges in the UK. In support of the transition the Bridge Design to Eurocodes: UK Implementation conference held at the Institution of Civil Engineers in November 2010 brought important background and explanatory information into the public domain. The proceedings of this conference provide an enduring record of the UK's Eurocodes implementation for bridge design, with papers written by invited experts who have been at the very heart of Eurocode developments in the UK. Readers are provided with the key technical decisions taken in the development of National Annexes, as well as important sources of complementary information and practical advice on applying the codes.

Providing definitive and practical information on the implementation of the Eurocodes for bridge design in the UK, this book is essential reading for bridge owners, managers, designers, consultants, local or central government engineers, academics, and software developers.

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