

Design Solutions and Innovations in Temporary Structures

Part of the Advances in Civil and Industrial Engineering Book Series

Robert Beale (Independent Researcher, UK) and João André (Portuguese National Laboratory for Civil Engineering, Portugal)

Description:

Temporary structures are a vital but often overlooked component in the success of any construction project. With the assistance of modern technology, design and operation procedures in this area have undergone significant enhancements in recent years.

Design Solutions and Innovations in Temporary Structures is a comprehensive source of academic research on the latest methods, practices, and analyses for effective and safe temporary structures. Includes perspectives on numerous relevant topics, such as safety considerations, quality management, and structural analysis.



Readers:

This book is ideally designed for engineers, professionals, academics, researchers, and practitioners actively involved in the construction industry.

ISBN: 9781522521990

Release Date: February, 2017

Copyright: 2017

Pages: 503

Topics Covered:

- Bridge Construction Equipment (BCE)
- Design Codes
- Falsework
- Quality Management
- Scaffolds
- Structural Analysis
- Structural Failures
- Structural Safety

Hardcover + Free E-Book:

\$200.00

E-Book Only:

\$200.00

Order Information

Phone: 717-533-8845 x100

Toll Free: 1-866-342-6657

Fax: 717-533-8661 or 717-533-7115

Online Bookstore: www.igi-global.com



Robert Beale obtained his BSc in Mathematics from Southampton University and a PhD in the analysis of semi-rigid connections for racking and scaffold structures from Oxford Brookes University where he worked as a Lecturer in Engineering Mathematics and a researcher into slender structures. He has published over 120 papers over a wide range of subjects ranging from fluid mechanics to mono-tube dampers to engineering structures, with an emphasis on pallet rack and scaffold structures. He has undertaken consultancy into the behaviour of rack and scaffold connections and supervised and externally examined research degrees both within the UK and internationally. Robert Beale has been invited to give seminars in Hong Kong, Malaysia and China and to attend and present his work at conferences throughout the world.

João André obtained his Diploma in Civil Engineering and MSc in Structural Engineering from “Instituto Superior Técnico” (part of University of Lisbon), and a PhD in Structural Engineering from Oxford Brookes University. He worked as a Professor for two years in “Universidade Lusófona” teaching courses on steel and reinforced concrete structures. He has been working in the Structures Department of the Portuguese National Laboratory Civil Engineering (LNEC) since 2005 where he currently serves as a Postdoctoral Research Fellow. He has published over 30 papers over a wide range of subjects ranging from numerical and experimental analyses, robustness and risk analyses, with emphasis on temporary structures. He was appointed member of the project team responsible for defining the “Robustness Framework” for the revision of the European Structural Eurocodes and he is the National Expert of the Working Group WG6 of CEN/TC250/WG6. He is currently working in two European COST Action research projects concerning communication and bridge structures.