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Performance-Based Optimization of Structures

Theory and Applications

Qing Quan Liang



CRC Press
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Performance Based Optimization Of Structures Theory And Applications

David Baud



Performance Based Optimization Of Structures Theory And Applications:

Performance-Based Optimization of Structures Qing Quan Liang, 2004-09-30 Performance Based Optimization of Structures introduces a method to bridge the gap between structural optimization theory and its practical application to structural engineering The Performance Based Optimization PBO method combines modern structural optimisation theory with performance based design concepts to produce a powerful technique for use in structural design This book provides the latest PBO techniques for achieving optimal topologies and shapes of continuum structures with stress displacement and mean compliance constraints The emphasis is strongly placed on practical applications of automated PBO techniques to the strut and tie modelling of structural concrete which includes reinforced and prestressed concrete structures Basic concepts underlying the development of strut and tie models design optimization procedure and detailing of structural concrete are described in detail Alternative approaches to topology optimization are also introduced The book contains numerous practical design examples illustrating the nature of the load transfer mechanism of structures

Analysis and Design of Steel and Composite Structures Qing Quan Liang, 2018-10-08 Steel and composite steel concrete structures are widely used in modern bridges buildings sport stadia towers and offshore structures Analysis and Design of Steel and Composite Structures offers a comprehensive introduction to the analysis and design of both steel and composite structures It describes the fundamental behavior of steel and composite members and structures as well as the current design criteria and procedures given in Australian standards AS NZS 1170 AS 4100 AS 2327 1 Eurocode 4 and AISC LRFD specifications Featuring numerous step by step examples that clearly illustrate the detailed analysis and design of steel and composite members and connections this practical and easy to understand text Covers plates members connections beams frames slabs columns and beam columns Considers bending axial load compression tension and design for strength and serviceability Incorporates the author's latest research on composite members Analysis and Design of Steel and Composite Structures is an essential course textbook on steel and composite structures for undergraduate and graduate students of structural and civil engineering and an indispensable resource for practising structural and civil engineers and academic researchers It provides a sound understanding of the behavior of structural members and systems

Design & Nature V Angelo Carpi, C. A. Brebbia, 2010 With the onward march of science and technology and the continuing quest for improvement there is a growing curiosity about the world around us Close examination of structures in nature can be rewarding and surprising Nature has shown an extraordinary capacity to develop dynamic structures and systems over many millions of years and there is still much to be learnt Aimed at providing

researchers in this subject with fresh impetus and inspiration this book consists of papers presented at the Fifth International Conference on Design and Nature The contributions reflect the rich variety of work currently taking place around the world and cover the following topics Nature and Architecture Mechanics in Nature Natural Materials and Processing Solutions from Nature Biomimetics Biomimetics and Bioinspiration Biocapacity Education in Design and Nature and Helical Design in Nature

Performance Improvement in Construction Management Brian Atkin,Jan Borgbrant,2009-09-25 This collection of reviews bridges the gap between construction research and practice under three major themes innovation organisation and human behaviour and methods and tools Many of the authors have worked in technology transfer as change agents resolving industrially relevant problems by using scientifically based research The book reveals the source of ideas data and results to provide a useful resource for researchers academics and graduate students and a challenging guide for senior industry managers

Managing Knowledge in the Construction Industry Alexander Styhre,2009-05-07 Knowledge management presents a new way of understanding organizations and companies and is especially suited to sophisticated and highly technical firms and operations such as those in the construction industry This new book draws on hard data from three separate research programs in Sweden and shows how the concept of knowledge can make sense in the construction industry an industry which can be viewed in essence as being engaged in the material transformation of nature into buildings In particular it explores and examines three different businesses a medium sized construction firm Wing rdh Architecture Sweden s most prestigious architecture firm and BESAB a specialist concrete injection firm working on underground construction An emerging theme is the situational and context bound nature of knowledge in the construction industry thus showing knowledge to be a remarkably heterogeneous concept A range of readers should find the book useful from students and construction managers through to researchers

Employee Resourcing in the Construction Industry Ani Raiden,Andrew Dainty,Richard Neale,2009-03-04 This new book looks at employee resourcing in depth both analytically and in order to provide a practical insight into the strategic considerations and operational approaches which modern large contractors take in deploying their human resources It is a valuable resource for both students and managers

Understanding Organisational Culture in the Construction Industry Vaughan Coffey,2010-01-28 Using the construction industry as the subject of his research Vaughan Coffey investigates the culture performance link using a new measure of company performance and an evaluation of organizational culture which is largely behaviourally based

OHS Electronic Management Systems for Construction Imriyas Kamardeen,2013 Occupational accidents have a massive personal and social cost as well as a major financial cost The construction industry is one of the most dangerous industries accounting for around 20 30% of all occupational deaths worldwide The accompanying financial cost is either absorbed directly or passed on in the form of higher insurance costs In addition regulatory bodies have started to impose legal accountability on all the parties along the construction supply chain OHS is hard to implement Construction projects are complex with a fluid workforce and

the regulatory framework is highly elaborate OHS Electronic Management Systems for Construction presents a theoretical framework which is designed to overcome these difficulties integrating OHS management in construction using knowledge management and web technologies This framework is explained in a clear step by step way as are features such as a systematically developed corporate safety memory and a virtual learning portal to facilitate on demand safety training The ultimate aim of this book is to aid the development of an established safety culture at the organisational level and the formation of an industry wide community of safety practice This is essential reading for OHS professionals and construction managers attempting to change their industry for the better as well as advanced students and researchers **Collaborative**

Construction Information Management Geoffrey Shen, Peter Brandon, Andrew Baldwin, 2009-06-02 Most construction projects are large and costly Collaborative working involves two or more stakeholders sharing their efforts and resources to complete the project more effectively and efficiently Collaborative integrative and multi disciplinary teams can tackle the complex issues involved in creating a viable built environment This tends to be looked at from three interrelated perspectives the technological organizational and social and of these the key issue is to improve productivity and enable innovation through the empowerment and motivation of people This book provides insights for researchers and practitioners in the building and construction industry as well as graduate students written by an international group of leading scholars and professionals into the potential use development and limitations of current collaborative technologies and practices Material is grouped into the themes of advanced technologies for collaborative working virtual prototyping in design and construction building information modelling managing the collaborative processes and human issues in collaborative working

Relational Contracting for Construction Excellence Albert P Chan, Daniel W Chan, John F Yeung, 2009-09-23 Improved efficiency and effectiveness in the construction industry provide huge potential savings Various forms of relational contracting such as partnering alliancing public private partnership PPP and joint venture are good examples of this Relational Contracting for Construction Excellence presents the principles of relational contracting practicalities and a series of short case studies Principles begins with the fundamentals then covers development in major countries definitions of relational contracting their benefits difficulties critical success factors and key performance indicators Practice includes the relational contracting approach and process in general and significant factors which make workshops successful at whatever stage of the process A number of real life case studies from the UK USA Australia and Hong Kong are provided Since the book draws on a combination of practical consultancy works and university research a wide range of readers will find it useful i e from industrial practitioners to undergraduate students **The Soft Power of Construction Contracting**

Organisations Sai On Cheung, Peter Shek Pui Wong, Tak Wing Yiu, 2015-01-09 Across the AEC industry the non technical skills possessed by organisations are key to their overall performance In this study the particular importance of optimising the so called soft power of organisations is addressed Things like organisational culture responsible corporate behaviour and

building trust based relationships with other stake holders are seen as facets of a broader organisational capability and the advantages of this strength are also explored The internationally conducted research behind this book will provide readers with new insights into effective management from both inter and intra organisational perspectives This unique and important book is essential reading for researchers and advanced students of construction management New Forms of Procurement Marcus C. Jefferies, Steve Rowlinson, 2016-04-14 The last three decades have seen the evolution of Public Private Partnerships PPPs and Relationship Contracting RC as alternative procurement approaches to traditional methods of delivering public infrastructure The potential for growth in these new forms of procurement has led to an on going debate on the nature of requirements particularly in terms of policy development encouraging private investment and value for money A key argument for Governments to procure projects using PPPs and RC is that the process delivers better value for all the stakeholders including the community and asset end users This wide ranging study of such crucial procurement issues includes international historical context collaboration and risk management with a focus on sustainable procurement approaches The international significance of PPPs and RC procurement is reinforced with case study examples from the UK Europe North America South Africa and the Asia Pacific It features cutting edge research from around the world on subjects such as Reviews and reflection of the PPP approach Project Alliancing Implementation of RC in developing countries Changes in procurement policy Value for money collaboration and stakeholder involvement Growth and emergence of PPPs in Asia Risk management Including contributions from some of the world s most prominent academics and practitioners in this field it is a crucial guide to the strategic choices governments now face for the provision of infrastructure between using public or private mechanisms or a combination of the two **Leadership and Sustainability in the Built Environment** Alex Opoku, Vian Ahmed, 2015-02-11 Features research carried out in 5 different continents The book s topic is crucial to the sustainability agenda This is an interdisciplinary book featuring contributions from the fields of construction sustainability and management Containment of High-Level Radioactive and Hazardous Solid Wastes with Clay Barriers Raymond N. Yong, Roland Pusch, Masashi Nakano, 2010-05-31 One of the principal objections to or problems with the use of nuclear fuel is that a proven method for safe disposal of spent nuclear fuel has yet to be established The central focus of most schemes underway to dispose of these high level radioactive wastes relies on clay based buffers and barriers to isolate spent fuel canisters in borehole **Fall Prevention Through Design in Construction** Imriyas Kamardeen, 2015-06-05 The role of designers has traditionally been to design a building so that it conforms to accepted local building codes The safety of workers is left up to the contractor building the designs Research shows however that designers can have an especially strong influence on construction safety during the concept preliminary and detailed design phases This book establishes the new knowledge and conceptual frameworks necessary to develop a mobile computing enabled knowledge management system that can help reduce the high rate of construction falls There are three main objectives of this book 1 To create a new

Prevention through Design PtD knowledge base to model the relationships between fall risks and design decisions 2 To develop a PtD mobile App to assist building designers in fall prevention through design 3 To evaluate the practical implications of the PtD mobile App for the construction industry especially for building designers and workers The cutting edge technologies explored in this book have the potential to significantly reduce the rate of serious injuries that occur in the global construction industry This is essential reading for researchers and advanced students of construction management with an interest in safety or mobile technologies

Trust in Construction Projects Anita Cerić, 2015-12-14 The relationship between project managers representing project owners and those on the contractor side is often threatened by communication risk The main communication risk minimization strategy in the construction phase is trust which plays a major role in the success of key working relationships across the construction industry This book investigates this phenomenon and goes on to show that once developed trust outshines all other strategies of communication risk minimization and is essential for project success As part of this investigation communication risk in construction projects is examined in detail with a particular focus on the effects of information asymmetry on working relationships Drawing on many years of empirical research involving project managers working internationally Trust in Construction Projects also provides strategies to minimize information asymmetries in order to build trust and ensure the success of construction projects By increasing understanding of trust in construction projects this book adds an important new perspective to the fields of construction management and project management This is essential reading for researchers and students as well as practitioners in these fields

Technology, Design and Process Innovation in the Built Environment Peter Newton, Keith Hampson, Robin Drogemuller, 2009-02-09 Buildings and infrastructure represent principal assets of any national economy as well as prime sources of environmental degradation Making them more sustainable represents a key challenge for the construction planning and design industries and governments at all levels and the rapid urbanisation of the 21st century has turned this into a global challenge This book embodies the results of a major research programme by members of the Australia Co operative Research Centre for Construction Innovation and its global partners presented for an international audience of construction researchers senior professionals and advanced students It covers four themes applied to regeneration as well as to new build and within the overall theme of Innovation Sustainable Materials and Manufactures focusing on building material products their manufacture and assembly and the reduction of their ecological fingerprints the extension of their service lives and their re use and recyclability It also explores the prospects for applying the principles of the assembly line Virtual Design Construction and Management viewed as increasing sustainable development through automation enhanced collaboration such as virtual design teams real time BL performance assessment during design simulation of the construction process life cycle management of project information zero information loss risk minimisation and increased potential for innovation and value adding Integrating Design Construction and Facility Management over the

Project Life Cycle by converging ICT design science engineering and sustainability science Integration across spatial scales enabling building infrastructure synergies such as water and energy efficiency Convergences between IT and design and operational processes are also viewed as a key platform increased sustainability *Concrete-Filled Stainless Steel Tubular Columns* Vipulkumar Patel, Qing Quan Liang, Muhammad Hadi, 2018-12-07 Concrete filled stainless steel tubular CFSST columns are increasingly used in modern composite construction due to their high strength high ductility high corrosion resistance high durability and aesthetics and ease of maintenance Thin walled CFSST columns are characterized by the different strain hardening behavior of stainless steel in tension and in compression local buckling of stainless steel tubes and concrete confinement Design codes and numerical models often overestimate or underestimate the ultimate strengths of CFSST columns This book presents accurate and efficient computational models for the nonlinear inelastic analysis and design of CFSST short and slender columns under axial load and biaxial bending The effects of different strain hardening characteristics of stainless steel in tension and in compression progressive local and post local buckling of stainless steel tubes and concrete confinement are taken into account in the computational models The numerical models simulate the axial load strain behavior moment curvature curves axial load deflection responses and axial load moment strength interaction diagrams of CFSST columns The book describes the mathematical formulations computational procedures and model verifications for circular and rectangular CFSST short and slender columns The behavior of CFSST columns under various loading conditions is demonstrated by numerous numerical examples This book is written for practising structural and civil engineers academic researchers and graduate students in civil engineering who are interested in the latest computational techniques and design methods for CFSST columns **Performance-based Optimization of Structures** Liang Quan, 2004 Performance Based Optimization of Structures introduces a method to bridge the gap between structural optimization theory and its practical application to structural engineering The Performance Based Optimization PBO method combines modern structural optimisation theory with performance based design concepts to produce a powerful technique for use in structural design This book provides the latest PBO techniques for achieving optimal topologies and shapes of continuum structures with stress displacement and mean compliance constraints The emphasis is strongly placed on practical applicat

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