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Energy Conservation in the Design of Multi-Storey Buildings documents the papers presented at an International Symposium held at The University of Sydney, 1-3 June 1983, sponsored by The University of Sydney, the International Association for Bridge and Structural Engineering, the Council for Tall Buildings and Urban Habitat, and the Institution of Engineers Australia. The volume contains 13 papers organized into two parts. Part I deals with predictive methods. It includes papers that describe the design of Australian projects where energy was a major issue; examine energy conservative building design from the standpoints of New York and Singapore; present a design tool for estimating energy consumption and costs; and consider limitations in the application of computers to the design of the airconditioning plant. Part II is devoted to energy management. The papers survey energy management in Australian office buildings and hospitals; describe energy audits in the United States; and discusses methods for the computer control of energy systems.

When this volume was first published, plastic theory was the most modern method of structural analysis, and it made possible the direct design of steel frames in a way not available with only elastic methods. It is now recognized that this theory is also fundamental to structural design in materials such as reinforced concrete and aluminium. This is the first volume of a two-volume work by Professors Baker and Heyman that expounds and illustrates the methods of plastic design. Volume 1 gives the elements of the theory and covers the needs of most undergraduates and designers. A special feature of this work is the large number of exercises (140 in all) with answers. Volume 2 deals with advanced topics of theoretical analysis and practical design. The examples and the methods presented herein are extremely valuable to the engineer. The quality of the writing makes Professors Baker and Heyman's book a pleasure to read. Lord Baker (Sir John Fleetwood Baker, 1901-1985) was Professor of Mechanical Sciences and Head of the Department of Engineering at the University of Cambridge from 1943 to 1968. He was a Fellow of the Royal Society. Baker's pioneering research led to the development of the plastic theory of design, originally used for steel frames but now recognized as being valid for many structural materials, such as aluminium and reinforced concrete. Additionally, Baker was responsible for many curriculum innovations at the university and was the author of The Steel Skeleton, a two-volume work. Jacques Heyman is the former Head of the Department of Engineering at the University of Cambridge and the author of ten books, including The Stone Skeleton, Elements of the Theory of Structures, Structural Analysis: A Historical Approach, Elements of Stress Analysis, and the two-volume set Plastic Design of Frames: Volume 1, Fundamentals with Lord Baker and Volume 2, Applications. He is a Fellow of the Society of Antiquaries, the Institution of Civil Engineers, and the Royal Academy of Engineering. He acted as a consulting engineer for a number of English cathedrals and as a member of the Architectural Advisory Panel for Westminster Abbey and of the Cathedrals Fabric Commission for England, and he has served on many British standards committees. The Stone Skeleton won the Choice Outstanding Academic Books Award in 1996.

Masters Theses in the Pure and Applied Sciences was first conceived, published, and dis seminated by the Center for Information and Numerical Data Analysis and Synthesis (CINDAS) \* at Purdue University in 1957, starting its coverage of theses with the academic year 1955. Beginning with Volume 13, the printing and dissemination phases of the ac tivity were transferred to University Microfilms/Xerox of Ann Arbor, Michigan, with the thought that such an arrangement would be more beneficial to the academic and general scientific and technical community. After five years of this joint undertaking we had concluded that it was in the interest of all concerned if the printing and distribution of the volume were handled by an international publishing house to assure improved service and broader dissemination. Hence, starting with Volume 18, Masters Theses in the Pure and Applied Sciences has been disseminated on a worldwide basis by Plenum Publishing Corporation of New York, and in the same year the coverage was broadened to include Canadian universities. All back issues can also be ordered from Plenum. We have reported in Volume 25 (thesis year 1980) a total of 10,308 theses titles from 27 Canadian and 214 United States universities. We are sure that this broader base for these titles reported will greatly enhance the value of this important annual reference work. While Volume 25 reports theses submitted in 1980, on occasion, certain universities do report theses submitted in previous years but not reported at the time.

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This established textbook sets out the principles of limit state design and of its application to reinforced and prestressed concrete members and structures. It will appeal both to students and design engineers. The fourth edition incorporates information on the recently introduced British Standard Code of practice for water retaining structures BS8007. The authors have also taken the opportunity of making minor revisions, generally based on the recommendations of BS8110.

The successful design and construction of iconic new buildings relies on a range of advanced technologies, in particular on advanced modelling techniques. In response to the increasingly complex buildings demanded by clients and architects, structural engineers have developed a range of sophisticated modelling software to carry out the necessary structural analysis and design work. Advanced Modelling Techniques in Structural Design introduces numerical analysis methods to both students and design practitioners. It illustrates the modelling techniques used to solve structural design problems, covering most of the issues that an engineer might face, including lateral stability design of tall buildings; earthquake; progressive collapse; fire, blast and vibration analysis; non-linear geometric analysis and buckling analysis. Resolution of these design problems are demonstrated using a range of prestigious projects around the world, including the Bujai Khalifa, Willis Towers; Taipei 101; the Gherkin; Millennium Bridge; Millau viaduct and the Forth Bridge, illustrating the practical steps required to begin a modelling exercise and showing how to select appropriate software tools to address specific design problems.

The design of tall buildings and complex structures involves challenging activities, including: scheme design, modelling, structural analysis and detailed design. This book provides structural designers with a systematic approach to anticipate and solve issues for tall buildings and complex structures. This book begins with a clear and rigorous exposition of theories behind designing tall buildings. After this is an explanation of basic issues encountered in the design process. This is followed by chapters concerning the design and analysis of tall building with different lateral stability systems, such as MRF, shear wall, core, outrigger, bracing, tube system, diagrid system and mega frame. The final three chapters explain the design principles and analysis methods for complex and special structures. With this book, researchers and designers will find a valuable reference on topics such as tall building systems, structure with complex geometry, Tensegrity structures, membrane structures and offshore structures. Numerous worked-through examples of existing prestigious projects around the world (such as Jeddah Tower, Shanghai Tower, and Petronas Tower etc.) are provided to assist the reader's understanding of the topics. • Provides the latest modelling methods in design such as BIM and Parametric Modelling technique. • Detailed explanations of widely used programs in current design practice, such as SAP2000, ETABS, ANSYS, and Rhino. • Modelling case studies for all types of tall buildings and complex structures, such as: Buttressed Core system, diagrid system, Tube system, Tensile structures and offshore structures etc.

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