Building Structures From Concepts To Design

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Building structures: from concepts to design. Add to My Bookmarks Export citation. Type Book Author(s) Millais, Malcolm Date c2005 Publisher Spon Press Pub place Abingdon, New York Edition 2nd ed ISBN-10 0415336228, 0415336236 ISBN-13 9780415336222, 9780415336239. This item appears on. List:

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Through structural shapes, unique design concepts or decorative details, buildings can provide ample inspiration for design projects of all kinds. Buildings can tell us a lot about a country's way of life and the culture during the period when it was built; a bit like looking at a historical photograph.

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Building Structures: From Concepts to Design Volume 2 of Building Structures: Author: Malcolm Millais: Edition: illustrated: Publisher: Taylor & Francis, 2005: ISBN: 0415336236, 9780415336239: Length: 423 pages: Subjects

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Acknowledged author Malcolm Millais wrote Building Structures: From Concepts to Design comprising 368 pages back in 1996. Textbook and eTextbook are published under ISBN 0419219706 and 9780419219705. Since then Building Structures: From Concepts to Design textbook was available to sell back to BooksRun online for the top buyback price or rent at the marketplace.

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Building structures: from concepts to design This book provides an overview of design, design philosophy, loads and load paths. It is an excellent book to review these key concepts without going in to detailed calculations

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Building structures: from concepts to design. Add to My Bookmarks Export citation. Type Book Author(s) Millais, Malcolm Date 2005 Publisher Spon Pub place London Edition 2nd ed ISBN-10 0203421434, 0415336228, 0415336236. This item appears on. List: CN123 - Structural form and behaviour READING LIST

Building structures: from concepts to design | University ...
Building Structures, third edition, is thought provoking and highly educational; it should be an essential reading for students and practitioners of the built environment in any country.' "This very broad book does a marvellous job of drawing the reader into the world of structural engineering - from seemingly simple concepts to increasingly complex issues.

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Building structures: from concepts to design. Back to list Add to My Bookmarks Export citation. Type Book Author(s) Millais, Malcolm Date 2005 Publisher Spon Pub place London Edition 2nd ed ISBN-10 0415336228, 0415336236 ISBN-13 9780415336222, 9780415336239. This item appears on. List: Tony's Structures Reading List

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This text will appeal to anyone with an interest in buildings. Both interested layman and all types of building professional will benefit from the explanations given for the behaviour of structures as they form part of buildings. No prior knowledge is assumed and no mathematics is used.

This is a one-stop book for knowing everything important about building structures. Self-contained and with no prerequisites needed, it is suitable for both general readers and building professionals. follow the history of structural understanding; grasp the concepts of structural behaviour via step-by-step explanations; apply these concepts to a simple building; see how these concepts apply to real buildings, from Durham Cathedral to the Bank of China; use these concepts to define the design process; see how these concepts inform design choices; understand how engineering and architecture have diverged, and what effect this had; learn to do simple but relevant numerical calculations for actual structures; understand when dynamics are important; follow the development of progressive collapse prevention; enter the world of modern structural theory; see how computers can be used for structural analysis; learn how to organise and design a successful project. With more than 500 pages and over 1100 user-friendly diagrams, this book is a must for anyone who would like to understand the fascinating world of structures.

The comprehensive reference on the basics of structural analysis and design, now updated with the latest considerations of building technology Structural design is an essential element of the building process, yet one of the most difficult to learn. While structural engineers do the detailed consulting work for a building project, architects need to know enough structural theory and analysis to design a building. Most texts on structures for architects focus narrowly on the mathematical analysis of isolated structural components, yet Building Structures looks at the general concepts with selected computations to understand the role of the structure as a building subsystem—without the complicated mathematics. New to this edition is a complete discussion of the LRFD method of design, supplemented by the ASD method, in addition to: The fundamentals of structural analysis and design for architects A glossary, exercise problems, and a companion website and instructor's manual Material ideally suited for preparing for the ARE exam Profusely illustrated throughout with drawings and photographs, and including new case studies, Building Structures, Third Edition is perfect for nonengineers to understand and visualize structural design.

A new edition of Francis D.K. Ching's illustrated guide tostructural design Structures are an essential element of the building process, yetone of the most difficult concepts for architects to grasp. Whilestructural engineers do the detailed consulting work for a project,architects should have enough knowledge of structural theory andanalysis to design a building. Building StructuresIllustrated takes a new approach to structural design, showinghow structural systems of a building—such as an integratedassembly of elements with pattern, proportions, and scale—arerelated to the fundamental aspects of architectural design. Thebook features a one-stop guide to structural design in practice, athorough treatment of structural design as part of the entirebuilding process, and an overview of the historical development ofarchitectural materails and structure. Illustrated throughout withChing's signature line drawings, this new Second Edition isan ideal guide to structures for designers, builders, andstudents. Updated to include new information on building code compliance,additional learning resources, and a new glossary of terms Offers thorough coverage of formal and spatial composition,program fit, coordination with other building systems, codecompliance, and much more Beautifully illustrated by the renowned Francis D.K. Ching Building Structures Illustrated, Second Edition is theideal resource for students and professionals who want to makeinformed decisions on architectural design.

Rather than relying on separate literature in the fields of structural engineering, architecture, construction and history, this text presents the field of structures holistically in terms of building and architecture. Buildings are studied from all points of view: geometrical, aesthetic, historical, functional, environmental and construction - providing the broadest treatment of structures available.* Descriptive, analytical, and graphical treatment of topics are presented with nearly equal emphasis. * Numerous case studies throughout exemplify structural concepts and develop a feeling for structure and form, instead of supporting specific architectural styles or structural acrobatics. * Teaching in the context of building structure and form (i.e., low-rise, high-rise, long-span, etc.) allows students to understand structures on real, not abstract, mathematical terms. * Structural systems (i.e., frames, arches, space frames, soft shells, etc.) and how they aid in making space and enhancing the formal presentation of a structure are discussed in detail. * Chapter 3 deals with approximate design methods for steel, wood, reinforced concrete, and prestressed concrete according to the

This book introduces young architects, engineers and builders to the fundamental concepts of building structures. It seeks to develop proper understanding and interpretation of structural behavior and concepts within various architectural expressions, which is accomplished using clear 3D illustrations, photographs and graphical details.

The development of prestressing technology has constituted one of the more important improvements in the fields of structural engineering and construction. Referring particularly to post-tensioning applications, it is generally recognized how it opens the possibility to improve economy, structural behaviour and aesthetic aspects in concrete solutions. In spite of the simplicity of its basic concepts and well-known advantages, the application extent of post-tensioning solutions cannot be considered harmonized in the different areas and structural applications. In fact, for various reasons, it appears that the potential offered by prestressing is far from being fully exploited, especially in building structures field. In many cases where post-tensioning would provide a visibly superior solution, it happens after all that a more conventional non-prestressed solution is often selected. The main objective of this fib Technical Report is therefore to show the benefits of using post-tensioning for the more common practical applications in concrete buildings. The document is mainly addressed to architects, contractors and owners. It is also drafted with the goal of motivating building designers to use post-tensioning: basic design aspects related to prestressing effects and design criteria are summarized and conceptual design aspects are emphasized. A set of practical examples is presented, showing the adopted solutions and their advantages when meeting the requirements of specific problems. The selected examples were precisely not chosen because they are outstanding structures. As a matter of fact, post-tensioning principles and technology can be used in any structure, independently of its importance, covering a wide range of building structural applications, improving the structure quality and promoting concrete as a structural material. The advantages of using post-tensioning, concerning structural behaviour, economy, detailing and constructive aspects, are illustrated by the presentation of several existing structures, most of them designed by Working Party members. General design calculations are not presented, but design results showing the improvement in structural behaviour are illustrated.

With the improved efficiency of heating, cooling and lighting in buildings crucial to the low carbon targets of all current governments, Building Science: Concepts and Applications provides a timely and much-needed addition to the existing literature on architectural and environmental design education. Taking a logical and didactic approach, the author introduces the reader to the underlying concepts and principles of the thermal, lighting, and acoustic determinants of building design in four integrated sections. The first section explores the thermal building environment and the principles of thermal comfort, translating these principles into conceptual building design solutions. The author examines the heat flow characteristics of the building envelope and explains steady state design methods that form the basis of most building codes. He discusses the sun as a natural heat source and describes the principles of active and passive solar building design solutions. The second section introduces the scientific principles of light, color, and vision, stressing the importance of daylight in building design, presenting the Daylight Factor design concept and methodology, and discussing glare conditions and their avoidance, It also addresses artificial lighting, delving into the prominent role that electricity plays in the production of light by artificial means and comparing the efficacy and characteristics of the various commercially available light sources in terms of the energy to light conversion ratio, life span, available intensity range, color rendition properties, and cost. The third section deals with the various aspects of sound that impact the design of the built environment, discussing the nature of sound as a physical force that sets any medium through which it travels into vibration and laying the foundations for the treatment of sound as an important means of communication as well as a disruptive disturbance. The final section discusses the foundational concepts of ecological design as a basis for addressing sustainability issues in building design solutions. These issues include the embedded energy of construction materials, waste management, preservation of freshwater and management of graywater, adoption of passive solar principles, energy saving measures applicable to mechanical building services, and the end-of-lifecycle deconstruction and recycling of building materials and components. Covers the fundamental building science topics of heat, energy, light and sound Takes a logical and didactic approach, tracing the historical roots of building science Includes summaries of new technologies in solar energy and photovoltaic systems Features a section on the principles of sustainable architecture Website with answers to MC questions testing students' learning