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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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Building Structures From Concepts To Design

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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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.

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

Construction Details From Architectural Graphic Standards Eighth Edition Edited by James Ambrose A concise reference tool for the professional involved in the production of details for building construction, this abridgement of the classic Architectural Graphic Standards provides indispensable

guidance on standardizing detail work, without having to create the needed details from scratch. An ideal "how to" manual for the working draftsperson, this convenient, portable edition covers general planning and design data, sitework, concrete, masonry, metals, wood, doors and windows, finishes, specialties, equipment, furnishings, special construction, energy design, historic preservation, and more. Construction Details also includes extensive references to additional information as well as AGS ' s hallmark illustrations. 1991 (0 471-54899-5) 408 pp. Fundamentals of Building Construction Materials And Methods Second Edition Edward Allen "A thoughtful overview of the entire construction industry, from homes to skyscrapers···there ' s plenty here for the aspiring tradesperson or anyone else

who ' s fascinated by the art of building." —Fine Homebuilding Beginning with the materials of the ancients—wood, stone, and brick—this important work is a guide to the structural systems that have made these and more contemporary building materials the irreplaceable basics of modern architecture. Detailing the structural systems most widely used today—heavy timber framing, wood platform framing, masonry loadbearing wall, structural steel framing, and concrete framing systems—the book describes each system ' s historical development, how the major material is obtained and processed, tools and working methods, as well as each system ' s relative merits. Designed as a primer to building basics, the book features a list of key terms and concepts, review questions and exercises, as well

as hundreds of drawings and photographs, illustrating the materials and methods described. 1990 (0 471-50911-6) 803 pp. Mechanical and Electrical Equipment for Buildings Eighth Edition Benjamin Stein and John S. Reynolds "The book is packed with useful information and has been the architect ' s standard for fifty years." —Electrical Engineering and Electronics on the seventh edition More up to date than ever, this reference classic provides valuable insights on the new imperatives for building design today. The Eighth Edition details the impact of computers, data processing, and telecommunications on building system design; the effects of new, stringent energy codes on building systems; and computer calculation techniques as applied to daylighting and electric lighting design. As did earlier

editions, the book provides the basic theory and design guidelines for both systems and equipment, in everything from heating and cooling, water and waste, fire and fire protection systems, lighting and electrical wiring, plumbing, elevators and escalators, acoustics, and more. Thoroughly illustrated, the book is a basic primer on making comfort and resource efficiency integral to the design standard. 1991 (0 471-52502-2) 1,664 pp.

This book presents comparative design as an approach to the conceptual design of structures. Primarily focusing on reasonable structural performance, sustainable development and architectural aesthetics, it features detailed studies of structural performance through the composition and de-

composition of these elements for a variety of structures, such as high-rise buildings, long-span crossings and spatial structures. The latter part of the book addresses the theoretical basis and practical implementation of knowledge engineering in structural design, and a case-based fuzzy reasoning method is introduced to illustrate the concept and method of intelligent design. The book is intended for civil engineers, structural designers and architects, as well as senior undergraduate and graduate students in civil engineering and architecture. Lin Shaopei and Huang Zhen are both Professors at the Department of Civil Engineering, Shanghai Jiao Tong University, China.

You can use this book to design a house for yourself with

your family; you can use it to work with your neighbors to improve your town and neighborhood; you can use it to design an office, or a workshop, or a public building. And you can use it to guide you in the actual process of construction. After a ten-year silence, Christopher Alexander and his colleagues at the Center for Environmental Structure are now publishing a major statement in the form of three books which will, in their words, "lay the basis for an entirely new approach to architecture, building and planning, which will we hope replace existing ideas and practices entirely." The three books are The Timeless Way of Building, The Oregon Experiment, and this book, A Pattern Language. At the core of these books is the idea that people should design for themselves their own houses, streets, and communities.

This idea may be radical (it implies a radical transformation of the architectural profession) but it comes simply from the observation that most of the wonderful places of the world were not made by architects but by the people. At the core of the books, too, is the point that in designing their environments people always rely on certain "languages," which, like the languages we speak, allow them to articulate and communicate an infinite variety of designs within a forma system which gives them coherence. This book provides a language of this kind. It will enable a person to make a design for almost any kind of building, or any part of the built environment. "Patterns," the units of this language, are answers to design problems (How high should a window sill be? How many stories should a building have? How much

space in a neighborhood should be devoted to grass and trees?). More than 250 of the patterns in this pattern language are given: each consists of a problem statement, a discussion of the problem with an illustration, and a solution. As the authors say in their introduction, many of the patterns are archetypal, so deeply rooted in the nature of things that it seemly likely that they will be a part of human nature, and human action, as much in five hundred years as they are today.