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The Structural Basis of Architecture

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The Structural Basis of Architecture | Taylor & Francis Group

The term architectural structures refers to the skeleton of buildings and all the methods and formulas required to calculate and design the various elements that allow a building to stand: footings, walls, columns, beams, arches

The Structural Basis of Architecture by Bjørn N. Sandaker

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The Structural Basis of Architecture / Edition 2 by Bjorn ...

Structural Basis of Architecture Hardcover - November 1, 1992 by Bjorn N. Sandaker (Author) See all formats and editions Hide other formats and editions. Price New from Used from Hardcover "Please retry" \$19.00 . \$19.00: \$2.44: Hardcover \$19.00

Structural Basis of Architecture: Sandaker, Bjorn N ...

A rich, varied and engaging rationale for structural form in architecture thus emerges. The launch event will feature a book talk

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by Cruvellier followed by a reception and book signing. Copies of *The Structural Basis of Architecture*, Third Edition will be available for sale at a reduced price.

Mark Cruvellier: The Structural Basis of Architecture ...

This is a book that shows how to "see" structures as being integral to architecture. It engages a subject that is both about understanding the mechanical aspects of structure as well as being able to relate this to the space, form, and conceptual design ideas that are inherent to the art of building. Analyzing the structural principles behind many of the best-known works of architecture from past and present alike, this book places the subject within a contemporary context.

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Subject matter is approached in a qualitative and discursive manner, illustrated by many photographs and structural behavior diagrams. Accessible mathematical equations and worked-out examples are also included so as to deepen a fundamental understanding of the topic. This new, color edition's format has been thoroughly revised and its content updated and expanded throughout. It is perfect as either an introductory structures course text or as a designer's sourcebook for inspiration, for here two essential questions are addressed in parallel fashion: "How do structures work?" and "What form do structures take in the context of architecture - and why so?" A rich, varied and engaging rationale for structural form in architecture thus emerges.

This is a book about structures that shows students how to "see" structures as integral to architecture, and how knowledge of structures is the basis for understanding both the mechanical and conceptual aspects inherent to the art of building. Analyzing the structural principles behind many of the best known works of architecture from past and present alike, this book places the subject within a contemporary context. The subject matter is approached in a qualitative and discursive manner, and is illustrated by many photographs of architectural projects and structural behaviour

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This new edition is completely updated and rewritten, covers an expanded range of topics, and includes many worked-out examples inspired by built projects. The approach throughout is to present structures as a fundamental basis for architecture. --Book Jacket.

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Structure As Architecture provides readers with an accessible insight into the relationship between structure and architecture, focusing on the design principles that relate to both fields. Over one hundred case studies of contemporary buildings from countries across the globe including the UK, the US, France, Germany, Spain, Hong Kong and Australia are interspersed throughout the book. The author has visited and photographed each of these examples and analyzed them to show how structure plays a significant architectural role, as well as bearing loads. This is a highly illustrated sourcebook, providing a new insight into the role of structure, and discussing the point where the technical and the aesthetic meet to create the discipline of 'architecture'.

This book contains a unique collection of various perspectives on the relationship between structures and the forms and spaces of architecture. As such it provides students and professionals alike with an essential sourcebook that can be mined for visual inspiration as well as for textually rich and authoritative insight into the links between structure, architecture, and cultural context. The chapters address fundamental structural elements and systems: columns, walls, beams, trusses, frames, tensile structures, arches, domes and shells. Each chapter is subdivided into two parts: • The essays - introduce

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The chapters with the reprinting of a curated set of essays and excerpts by various authors that uniquely address how particular structural elements or systems relate in essential fashion to architectural design concepts. • The model studies - physical models of the overall structural systems of several notable contemporary buildings from Europe, North and South America, Africa and Asia are illustrated with large photographs, detail close-ups, and views of their external forms and internal spaces that establish the exceptional qualities of these projects in connecting structural form to architectural design objectives. Mosaic layouts complete the chapters with a collection of photographs of yet more models whose particular details and unique features serve to extend the visual repertoire of the structural type being considered. The combination, juxtaposition and mutual positive reinforcement of these two collections, one largely textual and the other image based, provides the reader with unique and multifaceted insights into how structural forms and systems can be related to architectural design intentions. Conveyed by a strong and deliberate graphical design format, this assembly of materials gets to the very essence of structures within the context of architecture, and will inspire students and practitioners alike to make strategic design decisions for their own projects.

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Here, in one volume, is all the architect needs to know to participate in the entire process of designing structures. Emphasizing bestselling author Edward Allen's graphical approach, the book enables you to quickly determine the desired form of a building or other structure and easily design it without the need for complex mathematics. This unique text teaches the whole process of structural design for architects, including selection of suitable materials, finding a suitable configuration, finding forces and size members, designing appropriate connections, and proposing a feasible method of erection. Chapters are centered on the design of a whole structure, from conception through construction planning.

'Structure and Architecture' is an essential textbook for students and practitioners of architecture and structural engineering. MacDonald explains the basic principles of structure and describes the ranges of structure types in current use. Furthermore, the book links these topics directly with the activity of architectural design and criticism. An update of the first edition, 'Structure and Architecture 2ed' includes a revised opening chapter, and a new section that

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Discusses prominent buildings constructed since the last edition was published in 1994. Angus MacDonald deals with structures holistically, relating detailed topics back to the whole structure and building. He aims to answer the questions: What are architectural structures? How does one define the difference between the structure of a building and all of the other components and elements of which it consists? What are the requirements of structures? What is involved in their design? An understanding of the concepts involved in answering these questions and an appreciation of how the structure of a building functions enhances the ability of an individual to appreciate its architectural quality. This book is unique in that it discusses the structural component of architectural design in the context of visual and stylistic issues.

Structural Analysis of Historic Buildings offers the most' complete, detailed, and authentic data available on the materials, calculation methods, and design techniques used by architects and engineers of the nineteenth and early twentieth centuries. It provides today's building professionals with information needed to analyze, modify, and certify historic buildings for modern use. Among the many important features of this book not available in any other single volume are: * More than 350 line drawings and diagrams taken directly from original sources

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such as the Carnegie Steele Company's Pocket Companion (1893) and Frank Kidder's The Architect's and Builder's Pocketbook (1902) * Hard-to-find data on period structural components, such as cast-iron columns and beams, wrought-iron columns and beams, and fireproof terra cotta floor arches * Methods for determining what kind of loads structural components were originally designed to bear and methods to determine if they are still capable of performing as intended * Extensive coverage of historical foundation systems and empirical design methods for load-bearing masonry buildings For any building professional involved in the rapidly growing field of restoring, preserving, and adapting historic buildings, Structural Analysis of Historic Buildings is an invaluable structural handbook.

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