



Structure In Architecture

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Structure In Architecture:

Structure for Architects Ramsey Dabby,Ashwani Bedi,2012-04-17 An introduction to the concepts and principles of architectural structures in an easy to read format Written as an easy to understand primer on the topic Structure for Architects engages readers through instruction that uses a highly visual format and real world examples to underline the key facets of structural principles that are essential to the design process Eschewing complicated mathematics and technical jargon Structure for Architects demystifies the subject matter by showing it in the context of everyday situations giving architects and architectural technologists a clear understanding of how to incorporate structural principles into their designs Highlights of this book include A rich collection of drawings photographs and diagrams spread throughout the text which demonstrate fundamental structural concepts using everyday examples An overview of structural design basics as well as a summary of structural forms A look at the design implications of steel reinforced concrete and wood By providing an overall view of structures that covers the essentials of what architects and architectural technologists need to know Structure for Architects is a valuable tool for illustrating the importance of designing with structure in mind and for learning the basics that are necessary for collaborating confidently with project team members **Structure and Architecture** Angus J.

MacDonald,1994 This textbook explains the basic principles of structure in architecture and describes the ranges of structure as in current use It links these topics directly with the activity of architectural design and criticism The author deals with structures in a holistic way **Structure and Architecture** Angus MacDonald,2018 This thoroughly updated edition of Angus J Macdonald s insightful book Structure and Architecture offers an in depth analysis of structural design and its relationship with architecture It draws on clear explanations of the connections between structural form structural performance and architectural design to explore the interface between the technical and the visual in architecture Additional chapters in this new edition cover the fields of structural theory structural philosophy the contributions of prominent engineers to the evolution of Modern architecture and the concept and practice of sustainable design Fully illustrated this critical appraisal of structures is a core curriculum text for students of architecture structural engineering and architectural history and is also a valuable resource for practitioners of these disciplines Structure in Architecture Rowland J.

Mainstone,2024-10-28 All buildings must stand An adequate structure was as necessary for the simplest primitive hut as it is for the tallest or widest spanning modern building However this requirement became more difficult to satisfy as designers became more adventurous and the experience already gained became less directly applicable The present papers look at the consequent evolution of design methods and the types of understanding that have been essential guides A particular focus is the question of how earlier innovations made without the benefits of modern theory were possible Other papers look in detail at the most outstanding of these achievements such as the church of Hagia Sophia in Istanbul and the dome of Florence Cathedral *Structure in Architecture* Mario Salvadori,Robert A. Heller,1975 Structure and Architecture Angus J

Macdonald,2007-06-07 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 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 *The Vertical Building Structure* Wolfgang Schueller,1990 Schueller both a structural engineer and an architect has combined the fundamental ideas and perspectives of his two fields into a single reference He presents discussions illustrations graphs and equations for modern building structure systems from geometric aesthetic historical functional environmental and construction viewpoints Suitable as a textbook for graduate and advanced undergraduate courses in building structures and design engineering Annotation copyrighted by Book News Inc Portland OR Masted Structures in Architecture James Harris,Kevin Li,2012-09-10 This is the first fully comprehensive survey and analysis of masted structures and covers examples that have evolved during the past three decades Masted Structures are one of the most interesting developments in post war architecture resulting from a combination of technology structural engineering theory and a collaboration between architects and engineers This is an essential guide for architects to the structural and constructional implications of masted forms in relation to space enclosure patterns of loading and use of differing materials and techniques This useful volume will enable architects and engineers to understand the origins development and nature of masted structures and will provide a stimulating basis for future design *The Structural Basis of Architecture* Bjørn N. Sandaker,Arne P. Eggen,Mark R. Cruvellier,2019-03-25 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 The 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 **Structure for Architects** Ashwani Bedi,Ramsey Dabby,2019-07-11 Structure for Architects A Case Study in Steel Wood and Reinforced Concrete Design is a sequel to the authors first text Structure for Architects A Primer emphasizing the conceptual understanding of structural design in simple language and terms This book focuses on structural principles applied to the design of typical structural members a beam a girder and a column in a diagrammatic frame building Through the application of a single Case Study across three key materials the book illustrates the theory principles and process of structural design The Case Study progresses step by step for each material from determining tributary areas and loads through a member s selection and design The book addresses the frequent disparity between the way architects and engineers perceive and process information with engineers focusing on technical aspects and architects focusing on visual concepts Structure for Architects A Case Study in Steel Wood and Reinforced Concrete Design presents readers with an understanding of fundamental engineering principles through a uniquely thematic Case Study Focusing on the conceptual understanding of structural design this book will be of interest to architecture students and professionals looking to understand the application of structural principles in relation to steel wood and concrete design

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