



Structure In Architecture

Wolfgang Guggemos



Structure In Architecture:

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 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, 2001 This guide enables the reader to develop an understanding of how architectural structures function and is generously illustrated with examples take from contemporary buildings **Structure and Form in Modern Architecture** Curt Siegel, 1966 Structure: the Essence of Architecture Forrest Wilson, 1983 Structural Design for Architecture Angus Macdonald, 1997 Intended principally for use by students of architecture this book provides information required for making sensible choices on the structural aspects of architectural 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.

Exposed Structure in Building Design Charles H. Thornton, 1993

Exposed structure combines beauty, functionality, and economy in high-rise buildings, sports facilities, schools, atriums, garages, industrial plants, and rail and air terminals all over the world. This definitive sourcebook brings together for the first time in a single volume the processes, concepts, and materials needed for exposed structure. Filled with photographs and drawings of award-winning buildings, it explores the decision-making process as experienced by nineteen leading designers. Also, it highlights the characteristics of exposed structure when designing for durability and economy. The introduction identifies exposed structure in many well-known contemporary buildings, and recent innovations in structural systems and architectural forms, as well as the historical development, are explained. Readers will find unique conversations with top architects as they explore their choice to expose structure or why they decline to expose structure. Included are memorable comments by Edward Larrabee Barnes, John M. Y. Lee, Alfredo De Vido, James Ingo Freed, Gyo Obata, Cesar Pelli, Kevin Roche, Richard Rogers, and Bernard Tschumi. In addition, prominent structural engineers discuss in lively detail how they have worked out the politics, the process, and the technical challenges of exposing structure. Showcased are the innovative ideas of Eli Cohen, Vincent DeSimone, Eugene J. Fasullo, Hal Iyengar, William LeMessurier, Matthys Levy, Walter P. Moore, Peter Rice, Leslie E. Robertson, and Loring A. Wyllie. Exposed Structure in Building Design provides technical summaries and case studies of design problems and solutions of exposed concrete, steel, and wood structures. Aluminum and other materials are discussed, too. There is up-to-date coverage of the latest materials and structural systems, of details to handle temperature differentials, and of designs to resist corrosion, fracture, and fire. This comprehensive book also contains chapters dedicated to long-span structures such as roofed arenas and convention halls, and to the special design and maintenance requirements of parking garages. With its wide-ranging treatment of all types of exposed structure, its informative conversations with architects and engineers, and its extensive design and construction guidance, Exposed Structure in Building Design is an essential

sourcebook for architects engineers owners developers contractors and others interested in building design Structure As Architecture Andrew Charleson,2014-07-11 Structure as Architecture presents a comprehensive analysis of the indispensable role of structure in architecture An exploration as well as a celebration of structure the book draws on a series of design studies and case study examples to illustrate how structure can be employed to realize a wide range of concepts in contemporary architecture By examining design principles that relate to both architecture and structural engineering Andrew Charleson provides new insights into the relationship between both the technical and aesthetic aspects of architecture Now in its second edition the text has been extensively revised and updated throughout Features include A brand new chapter on hidden structure adding to the material on exposed structures Two new chapters on using structure to realise common architectural concepts through a combination of precedents and creative design Over 50 new case studies from across the globe Easy to understand diagrams and a highly visual design to aid understanding and accessibility More than two hundred case studies of contemporary buildings from countries such as the UK the US France Germany Spain Hong Kong Australia and Japan illustrate how a thorough integration of structure adds layers of richness and enhances the realisation of architectural design concepts **The Structural Basis of Architecture** Bjørn Normann Sandaker,Arne Petter Eggen,Mark Cruvellier,2011 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 Architectural Structures J. Wayne Place,2007-03-16 ARCHITECTURAL STRUCTURES Architecture A highly illustrative structural design resource for architects and builders Architectural Structures provides the critical tools and know how to design and build structures that will withstand wind earthquakes and other forces This major survey of structural design is a useful guide to the fundamentals of establishing the structural concept for a building and dealing with structural issues Using diagrams models computer simulations case studies and exercises Architectural Structures provides a comprehensive narrative that makes selecting and giving shape to structures and structural elements understandable In addition to developing the necessary vocabulary to effectively work with structural engineers it helps readers gain a common sense understanding of principles and issues the complexities of the design process and useful analytic methods This exceptional volume also features Diagrams drawings and photographs supporting complex concepts Helpful case studies illustrating structural behavior and the design of structural systems Information on cost estimation and other practical issues Real world problems and solutions based on actual building structures **Structures by Design** Rob Whitehead,2019-07-19 Winner of the 2021 TAA Textbook Excellence Award Honorable Mention of the 2021 BTES Book Award Structures by Design Thinking Making Breaking is a new type of structures textbook for architects who prefer to learn using the hands on creative problem solving techniques typically found in a design studio Instead of presenting structures as abstract concepts defined by formulas and diagrams this book uses a

project based approach to demonstrate how a range of efficient effective and expressive architectural solutions can be generated tested and revised Each section of the book is focused on a particular manner by which structural resistance is provided Form Arches and Cables Sections Beams Slabs and Columns Vectors Trusses and Space Frames Surfaces Shells and Plates and Frames Connections and High Rises The design exercises featured in each chapter use the Think Make Break method of reiterative design to develop and evaluate different structural options A variety of structural design tools will be used including the human body physical models historical precedents static diagrams traditional formulae and advanced digital analysis The book can be incorporated into various course curricula and studio exercises because of the flexibility of the format and range of expertise required for these explorations More than 500 original illustrations and photos provide example solutions and inspiration for further design exploration

Salvadori's Structure in Architecture Mario

Salvadori,Robert A. Heller,Deborah Oakley,2016-01-12 An excellent text as a first introduction to structures geared toward architecture students or as a companion for more traditional engineering math based courses including statics and strength of materials or structural principles This conceptual non mathematical yet technical look at the principles of structural mechanics and the physical properties of building elements makes structural mechanics for architecture accessible to all Continuing Dr Salvadori s passion for education and an accessible non mathematical presentation of structural mechanics Salvadori s Structure in Architecture The Building of Buildings 4 e is a must have for students of architecture and building construction structural engineers and all those with an interest in architecture It has been revised and expanded to include over 500 new illustrations 150 new photos and new materials covering the changes in technology and construction techniques developed during the last 50 years Now presented in three manageable sections covering the fundamental concepts Section 1 structural forms Section 2 and topics beyond the basics Section 3 it provides expanded content and graphics on critical topics such as beam behavior moment of inertia redundancy and much more

Conceptual Design of Structures Pierluigi D'Acunto,Patrick Ole Ohlbrock,Roland Pawlitschko,2024-04-22 Most of the embodied energy can be saved in the load bearing structure Conceptual Design of Structures is working at the interface between structural engineering architecture and art The book seeks to answer the complex question of what needs to be considered when conceiving a building structure What influences the process of conceptual thinking How do space and structure interact In what ways do architects and engineers work together The book thus sheds light on the topic of multidisciplinary interrelationships in design showing numerous different perspectives Renowned practitioners and researchers from architecture and engineering share their insights as do artists and historians who cross the disciplinary boundaries Furthermore this book also provides an outlook on possible future developments and aspects of sustainable design and construction Bridging practice academic and research Holistic perspectives through contributors from different disciplines Numerous essays interviews and project reviews provide direct insights Selected works from engineering architecture and

art Structure As Architecture Andrew Charleson,2006-08-11 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 *Shell Structures for Architecture* Sigrid Adriaenssens,Philippe Block,Diederik Veenendaal,Chris Williams,2014-03-21 Featuring a foreword by Pritzker Prize Winner Shigeru Ban Bringing together experts from research and practice Shell Structures for Architecture Form Finding and Optimization presents contemporary design methods for shell and gridshell structures covering form finding and structural optimization techniques It introduces architecture and engineering practitioners and students to structural shells and provides computational techniques to develop complex curved structural surfaces in the form of mathematics computer algorithms and design case studies Part I introduces the topic of shells tracing the ancient relationship between structural form and forces the basics of shell behaviour and the evolution of form finding and structural optimization techniques Part II familiarizes the reader with form finding techniques to explore expressive structural geometries covering the force density method thrust network analysis dynamic relaxation and particle spring systems Part III focuses on shell shape and topology optimization and provides a deeper understanding of gradient based methods and meta heuristic techniques Part IV contains precedent studies of realised shells and gridshells describing their innovative design and construction methods Model Perspectives: Structure, Architecture and Culture Mark R. Cruvellier,Bjorn N. Sandaker,Luben Dimcheff,2017-09-25 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 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.

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 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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Table of Contents Structure In Architecture

1. Understanding the eBook Structure In Architecture
 - The Rise of Digital Reading Structure In Architecture
 - Advantages of eBooks Over Traditional Books
2. Identifying Structure In Architecture
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Structure In Architecture
 - User-Friendly Interface
4. Exploring eBook Recommendations from Structure In Architecture
 - Personalized Recommendations
 - Structure In Architecture User Reviews and Ratings
 - Structure In Architecture and Bestseller Lists
5. Accessing Structure In Architecture Free and Paid eBooks
 - Structure In Architecture Public Domain eBooks

- Structure In Architecture eBook Subscription Services
- Structure In Architecture Budget-Friendly Options
- 6. Navigating Structure In Architecture eBook Formats
 - ePub, PDF, MOBI, and More
 - Structure In Architecture Compatibility with Devices
 - Structure In Architecture Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Structure In Architecture
 - Highlighting and Note-Taking Structure In Architecture
 - Interactive Elements Structure In Architecture
- 8. Staying Engaged with Structure In Architecture
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Structure In Architecture
- 9. Balancing eBooks and Physical Books Structure In Architecture
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Structure In Architecture
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Structure In Architecture
 - Setting Reading Goals Structure In Architecture
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Structure In Architecture
 - Fact-Checking eBook Content of Structure In Architecture
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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