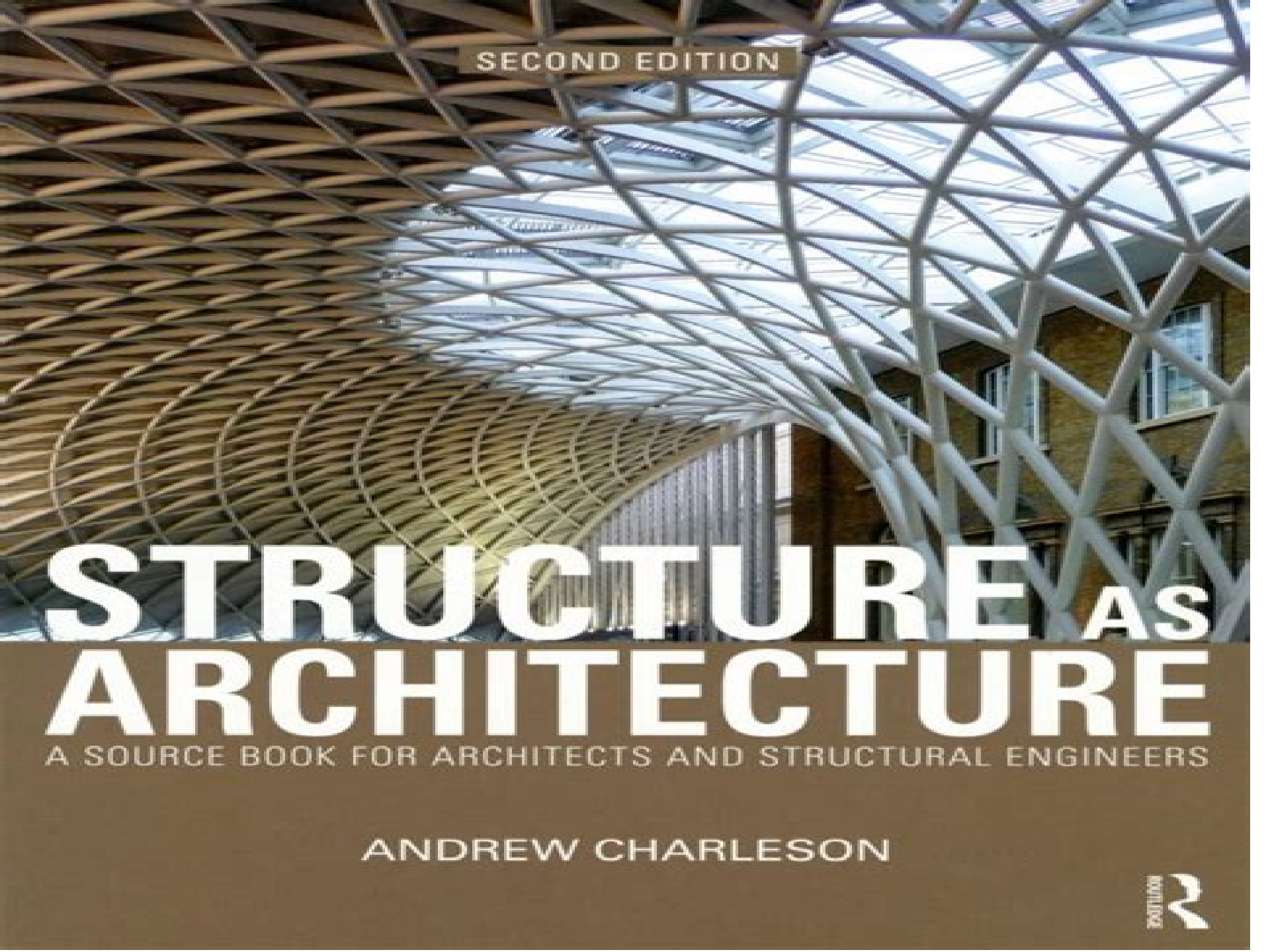




SECOND EDITION

STRUCTURE AS ARCHITECTURE

A SOURCE BOOK FOR ARCHITECTS AND STRUCTURAL ENGINEERS

ANDREW CHARLESON



Structure As Architecture A Source For Architects And Structural Engineers

Paulo J. Cruz



Structure As Architecture A Source For Architects And Structural Engineers:

Structure as Architecture Andrew Charleson, 2014-09-01 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.

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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. *Structures*

and Architecture Paulo J. Cruz,2013-06-27 Although the disciplines of architecture and structural engineering have both experienced their own historical development their interaction has resulted in many fascinating and delightful structures To take this interaction to a higher level there is a need to stimulate the inventive and creative design of architectural structures and to persuade

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Building Structures Illustrated Francis D. K. Ching,Barry S. Onouye,Douglas Zuberbuhler,2014-03-04 A new edition of Francis D K Ching s illustrated guide to structural design Structures are an essential element of the building process yet one of the most

difficult concepts for architects to grasp While structural engineers do the detailed consulting work for a project architects should have enough knowledge of structural theory and analysis to design a building Building Structures Illustrated takes a new approach to structural design showing how structural systems of a building such as an integrated assembly of elements with pattern proportions and scale are related to the fundamental aspects of architectural design The book features a one stop guide to structural design in practice a thorough treatment of structural design as part of the entire building process and an overview of the historical development of architectural materials and structure Illustrated throughout with Ching's signature line drawings this new Second Edition is an ideal guide to structures for designers builders and students 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 code compliance and much more Beautifully illustrated by the renowned Francis D K Ching Building Structures Illustrated Second Edition is the ideal resource for students and professionals who want to make informed decisions on architectural design

Structures and Architecture Paulo J. Cruz, 2016-10-14 Although the disciplines of architecture and structural engineering have both experienced their own historical development their interaction has resulted in many fascinating and delightful structures To take this interaction to a higher level there is a need to stimulate the inventive and creative design of architectural structures and to persuade architects and structural engineers to further collaborate in this process exploiting together new concepts applications and challenges This set of book of abstracts and full paper searchable CD ROM presents selected papers presented at the 3rd International Conference on Structures and Architecture Conference ICSA2016 organized by the School of Architecture of the University of Minho Guimarães Portugal July 2016 to promote the synergy in the collaboration between the disciplines of architecture and structural engineering **Seismic Isolation for Architects** Andrew Charleson, Adriana Guisasola, 2016-07-15 Seismic isolation offers the highest degree of earthquake protection to buildings and their inhabitants Modern applications of the technology are less than 50 years old and uptake in seismically active regions continues to soar Seismic Isolation for Architects is a comprehensive introduction to the theory and practice in this field Based on the latest research findings and the authors extensive experience coverage includes the application effectiveness benefits and limitations of seismic isolation as well as the architectural form design aspects retrofitting economics construction and maintenance related to this method The book is written for an international audience the authors review codes and practices from a number of countries and draw on examples from eleven territories including the US Chile Argentina Italy Japan and New Zealand Aimed at readers without prior knowledge of structural engineering the book provides an accessible non technical approach without using equations or calculations instead using over 200 drawings diagrams and images to support the text This book is key reading for students on architecture and civil engineering courses looking for a clear introduction to seismic resistant design as well as architects and engineers working in seismically active

regions *Seismic Architecture* Mentor Lljunji, 2016-01-01 This is arguably the most comprehensive book on the subject of architectural structural design decisions that influence the seismic performance of buildings It explores the intersection between the architecture and the structural design through the lens of earthquake engineering The main aim of this unique book written by renowned engineer M Lljunji is to explain in the simplest terms the architecture and structure of earthquake resistant buildings using many practical examples and case studies to demonstrate the fact that structures and buildings react to earthquake forces mainly according to their form configuration and material The purpose of this book is to introduce a new perspective on seismic design a more visual conceptual and architectural one to both architects and engineers In a word it is to introduce architectural opportunities for earthquake resistant buildings treating seismic design as a central architectural issue A non mathematical and practical approach emphasizing graphical presentation of problems and solutions makes it equally accessible to architectural and engineering professionals The book will be invaluable for practicing engineers architects students and researches More than 500 illustrations photographs and numerous case studies *Seismic Architecture* covers Earthquake effects on structures Seismic force resisting systems Advanced systems for seismic protection Architectural structural configuration and its influence on seismic response Contemporary architecture in seismic regions Seismic response of nonstructural elements Seismic retrofit and rehabilitation of existing buildings *Seismic architecture*

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

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