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The Structural Basis of Architecture

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"The Structural Basis of Architecture uses a myriad of historical and contemporary case studies to provide a concise and thorough explanation of the relationship between engineering and architecture. This book is an indispensable source for anyone interested in the logic of structures and their role not just in supporting but in imagining 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 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.

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Mark Cruvellier: The Structural Basis of Architecture ...

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This new edition is completely updated and rewritten, covers an expanded range of topics, and includes many worked-out examples

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inspired by built projects. The approach throughout is to present structures as a fundamental basis for architecture. --Book Jacket.

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 diagrams. This new edition is revised and updated throughout, includes worked-out examples, and is perfect as either an introductory structures course text or as a designer's sourcebook for inspiration.

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Discusses trusses, beams, columns, frames, arches, and cables, and looks at structural details around the world

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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 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

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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.

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.

At a time when most of the innovative techniques in empirical sociology concern themselves with networks of relations among variables (such as indices of occupational prestige, education and income), the central theme of this volume is that there is much substantive insight and analytical leverage to be gained from a conceptualization of social structure directly, as regularities in the patterning of relations among concrete entities. The view adopted here is that variate distributions measure selected consequences of structural pattern (of the actual connections among individuals or

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organizations) and, as such, they are useful indicators of questions to be asked in analyzing social structures directly, but they are neither descriptions nor analyses of the structure itself.

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