Safety Design In High Rise Construction New York City

Outrigger Design for High-Rise Buildings
Tall Buildings: From Engineering To Sustainability
Steel, Concrete, and Composite Design of Tall Buildings
Tall Building Design
Wind-induced Motion of Tall Buildings
High-Rise Security and Fire Life Safety
Construction Technology for High Rise Buildings
High-Rise Buildings
Design and Analysis of Tall and Complex Structures
Enhancing Building Performance
Structural Analysis and Design of Tall Buildings
Structural Design for Fire Safety
Frontiers of Engineering
Evaluation of Fire Safety
Globalization and Poverty
The Tall Buildings Reference Book
Building Systems for Interior Designers
Tall Building Criteria and Loading
The Tall Buildings Reference Book
Foundation Systems for High-Rise Structures
Brannigan's Building Construction for the Fire Service
The Management of Construction Safety and Health
High-rise Security and Fire Life Safety
Tall Building Foundation Design
Architecture of Tall Buildings
Wind Tunnel Testing of High-Rise Buildings

Designing High-Density Cities
Fire Safety Design for Tall Buildings
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Tall Buildings
Assessment of Total Evacuation Systems for Tall Buildings
Final Report on the Collapse of the World Trade Center Towers
Design Of Modern Highrise Reinforced Concrete Structures
Fire Safety for Very Tall Buildings
High-rise Manual
NBS Building Science Series
Reinforced Concrete Design of Tall Buildings
Bird-Friendly Building Design
Designing Tall Buildings
The Future of the City

NATHEN DOMINIQUE

Outrigger Design for High-Rise Buildings Routledge
Thoroughly reworked to reflect industry developments and experiences gained over the last ten years, this second edition imparts the advice and knowledge of more than 20 highly respected industry specialists.
Tall Buildings: From Engineering To Sustainability CreateSpace
Fire Safety Design for Tall Buildings provides structural engineers, architects, and students with a systematic introduction to fire safety design for tall buildings based on current analysis methods, design guidelines, and codes. It covers almost all aspects of fire safety design that an engineer or an architect might encounter—such as performance-based design and the basic principles of fire development and heat transfer. It also sets out an effective way of preventing the progressive collapse of a building in fire, and it demonstrates 3D modeling techniques to perform structural fire analysis with examples that replicate real fire incidents such as the Twin Towers and WTC7. This helps readers to understand the design of structures and analyze their behavior in fire.
Steel, Concrete, and Composite Design of Tall Buildings John Wiley & Sons
This book provides a comprehensive guide to the design of foundations for tall buildings. After a general review of the characteristics of tall buildings, various foundation options are

discussed followed by the general principles of foundation design as applied to tall buildings. Considerable attention is paid to the methods of assessment of the geotechnical design parameters, as this is a critical component of the design process. A detailed treatment is then given to foundation design for various conditions, including ultimate stability, serviceability, ground movements, dynamic loadings and seismic loadings. Basement wall design is also addressed. The last part of the book deals with pile load testing and foundation performance measurement, and finally, the description of a number of case histories. A feature of the book is the emphasis it places on the various stages of foundation design: preliminary, detailed and final, and the presentation of a number of relevant methods of design associated with each stage.

Tall Building Design Jones & Bartlett Publishers

This book presents the results of a Japanese national research project carried out in 1988-1993, usually referred to as the New RC Project. Developing advanced reinforced concrete building structures with high strength and high quality materials under its auspices, the project aimed at promoting construction of highrise reinforced concrete buildings in highly seismic areas such as Japan. The project covered all the aspects of reinforced concrete structures, namely materials, structural elements, structural design, construction, and feasibility studies. In addition to presenting these results, the book includes two chapters giving an elementary explanation of modern analytical techniques, i.e. finite element analysis and earthquake response analysis.

Wind-induced Motion of Tall Buildings World Scientific

The first of its kind, Designing Tall Buildings is an accessible reference that guides you through the fundamental principles of designing high-rises. Each chapter focuses on one theme central to tall-building design, giving you a comprehensive overview of the related architecture and structural engineering concepts. Mark P. Sarkisian provides clear definitions of technical terms and introduces important equations, to help you gradually develop your knowledge. Later chapters allow you to explore more complex applications, such as biomimicry. Projects drawn from Skidmore, Owings and Merrill’s vast catalog of built high-rises, many of which Sarkisian designed, demonstrate these concepts. This book advises you to consider the influence of a particular site’s geology, wind conditions, and seismicity. Using this contextual knowledge and analysis, you can determine what types of structural solutions are best suited for a tower on that site. You can then conceptualize and devise efficient structural systems that are not only safe, but also constructible and economical. Sarkisian also addresses the influence of nature in design, urging you to integrate structure and architecture for buildings of superior performance, sustainability, and aesthetic excellence.

High-Rise Security and Fire Life Safety Butterworth-Heinemann

As the ever-changing skylines of cities all over the world show, tall buildings are an increasingly important solution to accommodating growth more sustainably in today’s urban areas. Whether it is residential, a workplace or mixed use, the tower is both a statement of intent and the defining image for the new global city. The Tall Buildings Reference Book addresses all the issues of building tall, from the procurement stage through the design and construction process to new technologies and the

building’s contribution to the urban habitat. A case study section highlights the latest, the most innovative, the greenest and the most inspirational tall buildings being constructed today. A team of over fifty experts in all aspects of building tall have contributed to the making of the Tall Buildings Reference Book, creating an unparalleled source of information and inspiration for architects, engineers and developers.

Construction Technology for High Rise Buildings National Academies Press

High-Rise Security and Fire Life Safety servers as an essential took for building architects, building owners and property managers, security and fire safety directors, security consultants, and contract security firms. * Provides the reader with complete coverage of high-rise security and safety issues * Includes comprehensive sample documentation, diagrams, photographs to aid in developing security and fire life safety programs * Serves as an essential tool for building owners and managers, security and fire safety directors, security consultants and contract security firms.

High-Rise Buildings Birkhaüser

Over the past two decades, the percentage of the world’s population living on less than a dollar a day has been cut in half. How much of that improvement is because of—or in spite of—globalization? While anti-globalization activists mount loud critiques and the media report breathlessly on globalization’s perils and promises, economists have largely remained silent, in part because of an entrenched institutional divide between those who study poverty and those who study trade and finance. Globalization and Poverty bridges that gap, bringing together experts on both international trade and poverty to provide a detailed view of the effects of globalization on the poor in developing nations, answering such questions as: Do lower import tariffs improve the lives of the poor? Has increased financial integration led to more or less poverty? How have the poor fared during various currency crises? Does food aid hurt or help the poor? Poverty, the contributors show here, has been used as a popular and convenient catchphrase by parties on both sides of the globalization debate to further their respective arguments. Globalization and Poverty provides the more nuanced understanding necessary to move that debate beyond the slogans.

Design and Analysis of Tall and Complex Structures Butterworth-Heinemann

Building Systems for interior designers Second Edition Corky Binggeli, asid The updated guide to technical building systems for interior designers As integral members of the building design team, interior designers share an increasingly complex and crucial role. Now revised in its second edition, Building Systems for Interior Designers remains the one go-to resource that addresses the special concerns of the interior designer within the broader context of the rest of the building design team. Building Systems for Interior Designers, Second Edition explains technical building systems and engineering issues in a clear and accessible way to interior designers. Covering systems from HVAC to water and waste to lighting, transportation, and safety, author Corky Binggeli enables interior designers to communicate more effectively with architects, engineers, and contractors; collaborate effectively on projects; and contribute to more

accurate solutions for a broad range of building considerations. Among the many improvements in the Second Edition are: A deeper engagement with sustainable building design, giving the interior designer the resources needed to participate as part of a sustainable design team A reshaped structure that enhances the reader's understanding of the material Many more illustrations and explanatory captions With a host of features to make the book more up to date, easier to use, and more effective as an instructive guide, Building Systems for Interior Designers, Second Edition is a valuable book for students as well as a practical desktop reference for professionals.

Enhancing Building Performance CRC Press

As software skills rise to the forefront of design concerns, the art of structural conceptualization is often minimized. Structural engineering, however, requires the marriage of artistic and intuitive designs with mathematical accuracy and detail. Computer analysis works to solidify and extend the creative idea or concept that might have started o

Structural Analysis and Design of Tall Buildings Routledge

This SpringerBrief focuses on the use of egress models to assess the optimal strategy for total evacuation in high-rise buildings. It investigates occupant relocation and evacuation strategies involving the exit stairs, elevators, sky bridges and combinations thereof. Chapters review existing information on this topic and describe case study simulations of a multi-component exit strategy. This review provides the architectural design, regulatory and research communities with a thorough understanding of the current and emerging evacuation procedures and possible future options. A model case study simulates seven possible strategies for the total evacuation of two identical twin towers linked with two sky-bridges at different heights. The authors present the layout of the building and the available egress components including both vertical and horizontal egress components, namely stairs, occupant evacuation elevators (OEEs), service elevators, transfer floors and sky-bridges. The evacuation strategies employ a continuous spatial representation evacuation model (Pathfinder) and are cross-validated by a fine network model (STEPS). Assessment of Total Evacuation Systems for Tall Buildings is intended for practitioners as a tool for analyzing evacuation methods and efficient exit strategies. Researchers working in architecture and fire safety will also find the book valuable.

Structural Design for Fire Safety McGraw-Hill Companies

Brannigan’s Building Construction for the Fire Service, Fourth Edition is a must read for fire fighters, prospective fire fighters, and fire science students. This edition continues the Brannigan tradition of using plain language to describe technical information about different building types and their unique hazards. This text ensures that critical fire fighting information is easy-to-understand and gives valuable experience to fire fighters before stepping onto the fireground. The first edition of Building Construction for the Fire Service was published in 1971. Frank Brannigan was compelled to write the most comprehensive building construction text for the fire service so that he could save fire fighters’ lives. His passion for detail and extensive practical experience helped him to develop the most popular text on the market. His motto of: “Know your buildings,” informs every aspect of this new edition of the text. Listen to a Podcast

with Brannigan's Building Construction for the Fire Service, Fourth Edition co-author Glenn Corbett to learn more about this training program! Glenn discusses his relationship with the late Frank Brannigan, the dangers of heavy construction timber, occupancy specific hazards, and other areas of emphasis within the Fourth Edition. To listen now, visit: http://d2jw81rkebrcvk.cloudfront.net/assets.multimedia/audio/Building_Construction.mp3.

Frontiers of Engineering ASCE Publications

What constitutes a high-rise building? A high-rise is, in fact, any building with more than 9 storeys and not just those striking skyscrapers which shape modern city skylines. In the past architects who designed such structures used to be the exception but in the last 10 years more and more architectural offices have begun to focus on this type of building. However, the sheer complexity of designing and planning the construction of a high-rise as opposed to other building types requires a wealth of specialized experience and expertise. The High-Rise Manual is the first comprehensive reference work on this subject. All relevant aspects of such an undertaking are examined in detail by some 24 specialist authors. Each step is extensively documented including the initial project planning, the building organisation, the laying of the foundations, the supporting structure, the building technology, the office design, and the Facility Management. Theoretical contributions present the basic principles of select

Evaluation of Fire Safety McGraw-Hill Companies

An exploration of the world of concrete as it applies to the construction of buildings, Reinforced Concrete Design of Tall Buildings provides a practical perspective on all aspects of reinforced concrete used in the design of structures, with particular focus on tall and ultra-tall buildings. Written by Dr. Bungale S. Taranath, this work explains t

Globalization and Poverty CRC Press

A collection of papers presented at the Sixth International Conference on Tall Buildings (ICTB), this volume clearly explains the engineering and socio-economic aspects of tall buildings in specific areas of sustainability. The papers focus on Asian cities, where tall buildings have become a major feature of the built environment. A multi-disciplinary book, it also deals with the increasing complexity of inter-related problems that require knowledge integration from different disciplines. With interesting contributions from distinguished practitioners, academics and policy makers, the book addresses the development and application of knowledge in solving problems related to tall buildings.

The Tall Buildings Reference Book Springer Nature

Addresses the Question Frequently Proposed to the Designer by Architects: "Can We Do This? Offering guidance on how to use code-based procedures while at the same time providing an understanding of why provisions are necessary, Tall Building Design: Steel, Concrete, and Composite Systems methodically explores the structural behavior of steel, concrete, and composite members and systems. This text establishes the notion that design is a creative process, and not just an execution of framing proposals. It cultivates imaginative approaches by presenting examples specifically related to essential building codes and standards. Tying together precision and accuracy—it also bridges

the gap between two design approaches—one based on initiative skill and the other based on computer skill. The book explains loads and load combinations typically used in building design, explores methods for determining design wind loads using the provisions of ASCE 7-10, and examines wind tunnel procedures. It defines conceptual seismic design, as the avoidance or minimization of problems created by the effects of seismic excitation. It introduces the concept of performance-based design (PBD). It also addresses serviceability considerations, prediction of tall building motions, damping devices, seismic isolation, blast-resistant design, and progressive collapse. The final chapters explain gravity and lateral systems for steel, concrete, and composite buildings. The Book Also Considers: Preliminary analysis and design techniques The structural rehabilitation of seismically vulnerable steel and concrete buildings Design differences between code-sponsored approaches The concept of ductility trade-off for strength Tall Building Design: Steel, Concrete, and Composite Systems is a structural design guide and reference for practicing engineers and educators, as well as recent graduates entering the structural engineering profession. This text examines all major concrete, steel, and composite building systems, and uses the most up-to-date building codes.

Building Systems for Interior Designers CRC Press

Outrigger systems are rigid horizontal structures designed to improve a building’s stability and strength by connecting the building core or spine to distant columns, much in the way an outrigger can prevent a canoe from overturning. Outriggers have been used in tall, narrow buildings for nearly 500 years, but the basic design principle dates back centuries. In the 1980s, as buildings grew taller and more ambitious, outrigger systems eclipsed tubular frames as the most popular structural approach for supertall buildings. Designers embraced properly proportioned core-and-outrigger schemes as a method to offer far more perimeter flexibility and openness for tall buildings than the perimeter moment or braced frames and bundled tubes that preceded them. However, the outrigger system is not listed as a seismic lateral load-resisting system in any code, and design parameters are not available, despite the increasingly frequent use of the concept. The Council on Tall Buildings and Urban Habitat’s Outrigger Working Group has addressed the pressing need for design guidelines for outrigger systems with this guide, a comprehensive overview of the use of outriggers in skyscrapers. This guide offers detailed recommendations for analysis of outriggers within the lateral load-resisting systems of tall buildings, for recognizing and addressing effects on building behavior and for practical design solutions. It also highlights concerns specific to the outrigger structural system such as differential column shortening and construction sequence impacts. Several project examples are explored in depth, illustrating the role of outrigger systems in tall building designs and providing ideas for future projects. The guide details the impact of outrigger systems on tall building designs, and demonstrates ways in which the technology is continuously advancing to improve the efficiency and stability of tall buildings around the world.

Tall Building Criteria and Loading Riba Publishing

Compact living is sustainable living. High-density cities can support closer amenities, encourage reduced trip lengths and the

use of public transport and therefore reduce transport energy costs and carbon emissions. High-density planning also helps to control the spread of urban suburbs into open lands, improves efficiency in urban infrastructure and services, and results in environmental improvements that support higher quality of life in cities. Encouraging, even requiring, higher density urban development is a major policy and a central principle of growth management programmes used by planners around the world. However, such density creates design challenges and problems. A collection of experts in each of the related architectural and planning areas examines these environmental and social issues, and argues that high-density cities are a sustainable solution. It will be essential reading for anyone with an interest in sustainable urban development.

The Tall Buildings Reference Book CRC Press

The book deals with the geotechnical analysis and design of foundation systems for high-rise buildings and other complex structures with a distinctive soil-structure interaction. The basics of the analysis of stability and serviceability, necessary soil investigations, important technical regulations and quality and safety assurance are explained and possibilities for optimised foundation systems are given. Additionally, special aspects of foundation systems such as geothermal activated foundation systems and the reuse of existing foundations are described and illustrated by examples from engineering practice.

Foundation Systems for High-Rise Structures University of Chicago Press

As the ever-changing skylines of cities all over the world show, tall buildings are an increasingly important solution to accommodating growth more sustainably in today’s urban areas. Whether it is residential, a workplace or mixed use, the tower is both a statement of intent and the defining image for the new global city. The Tall Buildings Reference Book addresses all the issues of building tall, from the procurement stage through the design and construction process to new technologies and the building’s contribution to the urban habitat. A case study section highlights the latest, the most innovative, the greenest and the most inspirational tall buildings being constructed today. A team of over fifty experts in all aspects of building tall have contributed to the making of the Tall Buildings Reference Book, creating an unparalleled source of information and inspiration for architects, engineers and developers.

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