

Acces PDF Tall And Super Tall  
Buildings Planning And Design

# Tall And Super Tall Buildings Planning And Design

*Through a series of*

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# Acces PDF Tall And Super Tall Buildings Planning And Design

*detailed case studies from East Asia, Arup, one of the global leaders in tall building design, presents the latest developments in the field to inspire more innovative and sustainable*

# Acces PDF Tall And Super Tall Buildings Planning And Design

***ideas in tall building design and engineering. This book exhibits the key design aspects of tall buildings in 20 case studies, from China, Singapore, Hong Kong,***

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***Vietnam and Japan.  
Chapters cover design and construction, safety concerns, sustainability strategies, BIM and optimisation solutions, and include contributions***

## Acces PDF Tall And Super Tall Buildings Planning And Design

***from the actual project engineers. The projects chosen are not the tallest buildings, but all of them have been selected for their significant engineering insights and***

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***values. Arup's engineers explain the design principles, and how they overcame various design constraints and challenges, while exceeding their clients'***

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***expectations. Unique examples include: the design and application of a hybrid outrigger system in the Raffles City Chongqing project the challenges encountered in***

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***the construction of the CCTV Headquarters, Beijing as well as Tianjin's Goldin Finance 117 Tower, Ho Chi Minh City's Vincom Landmark 81, the China Resources Headquarters,***



# Acces PDF Tall And Super Tall Buildings Planning And Design

***Ping An IFC, Tokyo's Nicolas G Hayek Center and the Shanghai World Financial Centre. These varied and complex cases studies draw on multi-disciplinary design and***

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***engineering challenges which make this book essential reading for architects, structural engineers, project managers and researchers of high-rise buildings.***

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***The book also provides a usual reference and link between practitioners in the industry, academia and engineering students.***  
***fib Bulletin 73: Tall Buildings is the result of***

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***a collaboration between the fib and MPA The Concrete Centre (UK). Task Group 1.6 High-rise buildings, within fib Commission 1: Structures, was drawn together with a***

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***mandate to write about the experience and know-how pertinent to the development, design and construction of tall concrete buildings. The group's findings are***

# Acces PDF Tall And Super Tall Buildings Planning And Design

***presented in this state-of-the-art report. Tall buildings are a unique challenge to engineers, even to those with extensive experience of low-rise structures. The***

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***bulletin explains the critical interfaces with other professionals, for example architects, building services engineers, façade and lift specialists, geotechnical***

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***engineers and wind specialists, highlighting how these parties interact with engineers and can influence and guide the development of the structural solution. The***



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***key factors in choosing the most appropriate structural system are discussed. The bulletin covers the criteria used to select the most economical structural***

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***elements including the foundations, the vertical elements and the floor slabs. Examples of common construction methods are presented and their effects on the structural***

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***engineering design are discussed. Tall buildings can undergo significant deformation during their construction and service life. These movements need to be understood by the***

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*designer and potentially compensated for in the design and during construction. One of the main particularities of the design of tall buildings is the dominance*

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***of the lateral loading from wind and seismic actions. The bulletin provides a discussion of these important topics and sets out the current approach taken by***

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*experienced engineers. Designers of tall buildings also need to understand the dynamic behaviour of the structure and confine the motion of the building to within*

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***acceptable limits.***

***Approaches to damping and dynamic performance are discussed and guidance provided on the appropriate occupant comfort limits.***

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***In recent years, the rapid pace of tall building construction has fostered a certain kind of placelessness, with many new tall buildings being built out of scale,***



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***context and place. By analyzing hundreds of tall buildings and by providing hundreds of visuals that inspire, stimulate and engage, Understanding Tall Buildings contends that***

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***well-designed tall buildings can rejuvenate cities, ignite economic activity, support social life and boost city pride. Although this book does not claim to possess all***

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*the solutions, it does propose specific tall building design guidelines that may help to promote placemaking. Through this work, it is the author's hope that ill-conceived*

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***developments will become less common in the future and that good placemaking will become the norm, not the exception. This book is a must-read for students and practitioners***

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*working to create better tall buildings and better urban environments.*

*This book provides a comprehensive guide to the design of foundations for tall buildings. After a*

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***general review of the characteristics of tall buildings, various foundation options are discussed followed by the general principles of foundation design as***

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*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*

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*design process. A detailed treatment is then given to foundation design for various conditions, including ultimate stability, serviceability, ground movements, dynamic*



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***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,***

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***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:***

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*preliminary, detailed and final, and the presentation of a number of relevant methods of design associated with each stage.*

*The Origins of American*

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***Comics***

***Tall and Super Tall Buildings***

***Standing Tall: the Construction of Tall and Even Super-tall Buildings, Particularly in the Gulf***

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***and Far East Regions,  
Raises New Fire Safety  
Concerns for Those  
Responsible, from Project  
Managers to Insurers  
Theory, Design Guidance  
and Case Studies***

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## ***Understanding Tall Buildings***

### ***Arup's Tall Buildings in Asia***

The Manhattan skyline is one of the great wonders of the modern world. But how and why did it form? Much has been

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written about the city's architecture and its general history, but little work has explored the economic forces that created the skyline. In *Building the Skyline*, Jason Barr chronicles the economic history of the Manhattan skyline. In the process, he debunks some widely held misconceptions about the city's history.

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Starting with Manhattan's natural and geological history, Barr moves on to how these formations influenced early land use and the development of neighborhoods, including the dense tenement neighborhoods of Five Points and the Lower East Side, and how these early decisions eventually impacted the



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location of skyscrapers built during the Skyscraper Revolution at the end of the 19th century. Barr then explores the economic history of skyscrapers and the skyline, investigating the reasons for their heights, frequencies, locations, and shapes. He discusses why skyscrapers emerged downtown and why they

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appeared three miles to the north in midtown-but not in between the two areas. Contrary to popular belief, this was not due to the depths of Manhattan's bedrock, nor the presence of Grand Central Station. Rather, midtown's emergence was a response to the economic and demographic forces that

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were taking place north of 14th Street after the Civil War. Building the Skyline also presents the first rigorous investigation of the causes of the building boom during the Roaring Twenties. Contrary to conventional wisdom, the boom was largely a rational response to the economic growth of the nation and

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city. The last chapter investigates the value of Manhattan Island and the relationship between skyscrapers and land prices. Finally, an Epilogue offers policy recommendations for a resilient and robust future skyline.

This breathtaking new book, compiled by tall buildings specialist, Georges Binder,

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showcases more than 100 of the tallest buildings in China across more than 25 cities, including those towering over the megacities of Beijing, Shanghai and emerging supercities, such as Chengdu, Guangzhou and Tianjin. Georges Binder summarises the history of the Chinese tall building landscape from the 1930s to

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the present day, and features the best in contemporary design, including emerging architectural trends, showcasing each project with beautiful imagery and detailed plans. The book also delves into the hard architectural statistics and buildings' features with gritty detail. These skyscrapers are a fitting symbol of

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China's new-found prosperity, ambition and architectural flair.

Since the skyscraper's humble beginnings as a 10-story building in Chicago, more than 100 years ago, the super-tall building has been a source of wonder for the layman, and of inspiration, innovation, and fierce

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competition for architects, engineers, contractors, and the countless others involved with the complex challenge of constructing increasingly higher buildings. Originally built predominantly as stand-alone office buildings, super-tall skyscrapers have evolved into vertical cities, which are often part of a larger



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urban plan, with most new examples incorporating a mix of uses including residential, hotel, retail, entertainment, and leisure facilities. This book is a fully illustrated snapshot of 101 of today's tallest buildings from around the world. The next wave of super-tall buildings is so impressive that a selection of projects

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currently under construction is presented in the second part of the book.

(Cont.) The current thesis is comprised of three parts: a review of past and current trends in structural systems of tall buildings, including a comparison of the twenty tallest buildings globally; an investigation of passive control-Tuned

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Mass Dampers-with also several examples of structures which have such a system; and a demonstration of the effectiveness of Tuned Mass Dampers through a case study of the current tallest building to the structural top in the world, a 508m tremendous architectural, engineering and construction

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achievement - Taipei 101. The change in the response of the tower due to a wind-induced vibration is illustrated by performing a time-history analysis with and without the TMD in a SAP2000 model. Finally, recommendations for future research in the field of distributed TMDs are offered.

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Planning and Design

New Suburbanism: Sustainable Tall

Building Development

Designing for Habitability

Skyscrapers and High Rises

Leaping Tall Buildings

Steel, Concrete, and Composite Design of Tall Buildings

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**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**

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**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**

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**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**



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**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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**The chaotic proliferation of skyscrapers in many cities around the world is contributing to a decline in placemaking. This book examines the role of skyscrapers and open spaces in promoting placemaking in the city of Chicago. Chicago's**

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**skyscrapers tell an epic story of transformative architectural design, innovative engineering solutions, and bold entrepreneurial spirit. The city's public plazas and open spaces attract visitors, breathe life, and bring balance into the cityscape.**

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**Using locational data from social media platforms, including Twitter, Facebook, and Instagram, along with imagery from Google Earth, fieldwork, direct observations, in-depth surveys, and the combined insights from architectural and**

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**urban design literature, this study reveals the roles that socio-spatial clusters of skyscrapers, public spaces, architecture, and artwork play to enhance placemaking in Chicago. The study illustrates how Chicago, as the birthplace of**

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**skyscrapers, remains a leading city in tall building integration and innovation. Focusing on some of the finest urban places in America, including the Chicago River, the Magnificent Mile, and the Chicago Loop, the book offers meaningful**

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**architectural and urban design lessons that are transferable to emerging skyscraper cities around the globe.**

**This Guide provides information on special topics that affect the fire safety performance of very tall**

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**buildings, their occupants and first responders during a fire. This Guide addresses these topics as part of the overall building design process using performance-based fire protection engineering concepts as described in the SFPE Engineering Guide to**



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**Performance Based Fire Protection. This Guide is not intended to be a recommended practice or a document that is suitable for adoption as a code. The Guide pertains to “super tall,” “very tall” and “tall” buildings. Throughout**

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**this Guide, all such buildings are called “very tall buildings.” These buildings are characterized by heights that impose fire protection challenges; they require special attention beyond the protection features typically provided by**

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**traditional fire protection methods. This Guide does not establish a definition of buildings that fall within the scope of this document. Much of the anticipated future growth in the United States will take place in suburbia. The critical**

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**challenge is how to accommodate this growth in a sustainable and resilient manner. This book explores the role of suburban tall as a viable, sustainable alternative to continued suburban sprawl. It identifies 10 spatial patterns in which tall**

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**buildings have been integrated into the American suburbs. The study concludes that the Tall Building and Transit-Oriented-Development (TB-TOD) model is the most appropriate to promote sustainable suburbanism. The findings are based on analyzing**

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**over 300 projects in 24 suburban communities within three major metropolitan areas including: Washington, DC, Miami, Florida, and Chicago, Illinois. The book furnishes planning strategies that address the social, economic, and**

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**environmental aspects of sustainable tall building development. It also discusses sustainable architectural design and site planning strategies and provides case studies of sustainable tall buildings that were successfully integrated into**

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**suburban settings.**

**Supertall | Megatall**

**A Social History of the Very Tall Building in America**

**Structural design of concrete buildings up to 300m tall**

**Tall buildings**



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## **Building the Skyline**

### **Council on Tall Buildings and Urban Habitat**

An illuminating introduction to the influence of architecture on the world, the environment, and human lives Architecture matters. It matters

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to cities, the planet, and human lives. How architects design and what they build has an impact that usually lasts for generations. The more we understand architecture—the deeper we probe the decisions and designs that go into making a building—the

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better our world becomes. Aaron Betsky, architect, author, curator, former museum director, and currently the dean of the Frank Lloyd Wright School of Architecture, guides readers into the rich and complex world of

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contemporary architecture.

Combining his early experiences as an architect with his extensive experience as a jury member selecting the world's most prominent and cutting-edge architects to build icons for cities,

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Betsky possesses rare insight into the mechanisms, politics, and personalities that play a role in how buildings in our societies and urban centers come to be. In approximately fifty themes, drawing on his inside knowledge of the architectural

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world, he explores a broad spectrum of topics, from the meaning of domestic space to the spectacle of the urban realm. Accessible, instructive, and hugely enjoyable, *Why Architecture Matters* will open the eyes of anyone dreaming of

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becoming an architect, and will bring a wry smile to anyone who already is.

Tall buildings represent one of the most energy-intensive architectural typologies, while at the same time offering the high density work and

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living conditions that many believe will be an important constituent of future sustainable communities. How, then, can their environmental impact be lessened? This insightful book takes in: an overview of the tall building and its impacts (looking at



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cityscape, place, mobility, microclimate, energy and economics) design principles and the development of the sustainable tall building global perspectives (covering North and South America, Europe, the Middle East and Asia)

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detailed, qualitative case studies of buildings in design and operation the future for sustainable tall buildings. Not simply another showcase for future utopian designs and ideals, the information presented here is based on hard research from

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operating buildings. Highly illustrated and combining analysis with solid detail for practice, this is essential reading for architects, building engineers, design consultants, retrofitters and urban planners interested in or working

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with tall buildings, and researchers/students in these disciplines.

Introduces some of the tallest buildings in the world, including the Sears Tower, the Empire State Buildings, the Petronas Towers, and

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the Taipei 101.

This book is intended to fill a knowledge gap in the study of contemporary high-rise living. While there has been much documentation on the engineering and technological aspects of tall buildings, relatively

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little has been written about the social and livability of high-rise. Much less is written about Asian cities even though Asia is the current hotbed of high-rise development. Even though traditional discourse of high-rise housing is not always

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positive, new forces are redefining its place in 21st century urbanity. Many cities around the world are reembracing high-rise in urban agenda under current narrative of sustainable development. High-rise is fast becoming a priority area in

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international research agenda. The quest is for livable and sustainable high-rise development. Against the background of current trends--globalization, urbanization, mixed-use development, and new-built taller buildings in inner city



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areas in both developed and developing countries, this book examines the software: design, economics, estate management, legal and property rights, physical environment, planning, community development, and social dimensions

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of high-rise living. Analysis is with the widely acclaimed successful high-rise public housing in Hong Kong and Singapore to understand the advantages and worries of high-rise living, and to distill the key points and lessons in the making of a

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'good' highrise living environment. Hong Kong and Singapore have been constructing high-rise for more than four decades each. The majority of their population has moved to live in high-rise, selecting to live high-rise, and registering consistently high

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residential satisfaction. The height of apartment buildings in both cities continues to rise. The tallest is anticipated to be 70-storey. It is the contention of this book that contrary to earlier common negative discourses on public high-rise living,

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the high-rise environment may yet offer urban residents a satisfying dwelling experience. Leading housing academics, researchers and practitioners in the two cities have contributed to this book. This book presents a timely contribution to our

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understanding of a widening urban phenomenon that will affect a growing number of the world's population.

Stories Behind the Storeys  
Tall Buildings and the City  
Skyscrapers

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Supertall: How the World's Tallest Buildings Are Reshaping Our Cities and Our Lives

Tall Buildings of Europe, Middle East & Africa

Case Study of Taipei 101

***Damping Technologies***

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***for Tall Buildings  
provides practical advice  
on the selection, design,  
installation and testing of  
damping systems. Richly  
illustrated with images  
and schematics, this book***

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***presents expert  
commentary on different  
damping systems, giving  
readers a way to  
accurately compare  
between different device  
categories and gain and***

## Acces PDF Tall And Super Tall Buildings Planning And Design

***understand the advantages and disadvantages of each. In addition, the book covers their economical and sustainability implications. Case studies***

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***are included to provide a direct understanding on the possible applications of each device category. Provides an expert guide on the selection and deployment of the various***

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***types of damping technologies Drawn from extensive contributions from international experts and research projects that represent the current state-of-the-***

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***art and design in  
damping technologies  
Includes 25+ real case  
studies collected with  
very detailed information  
on damping design,  
installation, testing and***

# Acces PDF Tall And Super Tall Buildings Planning And Design

***other building implications***

***Some are mild mannered geeks, others mad geniuses or street-smart city dwellers driven to action. These are the men***

## Acces PDF Tall And Super Tall Buildings Planning And Design

***and women behind the masks and tights of America's most beloved superheroes. But these aren't the stories of the heroes' hidden alter egos or secret identities...these***

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***are the stories of their  
creators! Leaping Tall  
Buildings: The Origins of  
American Comics gives  
you the truth about the  
history of the American  
comic book—straight***

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***from the revolutionary  
artists and writers behind  
them. From the founders  
of the popular comics  
website Graphic  
NYC—writer Christopher  
Irving and photographer***

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***Seth Kushner—comes the  
firsthand accounts of the  
comic book's story, from  
its birth in the late 1930s  
to its current renaissance  
on movie screens and  
digital readers***

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***everywhere. Kushner's evocative photography captures the subjects that Irving profiles in a hard-hitting narrative style derived from personal interviews with the***

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***legends of the art, all of which is accompanied by examples of their work in the form of original art, sketches, and final panels and covers. The creators profiled include Captain***

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***America creator Joe  
Simon, Marvel guru Stan  
Lee, Mad magazine's fold-  
out artist Al Jaffee,  
visionary illustrator Neal  
Adams (Batman),  
underground paragon Art***

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***Spiegelman (Maus), X-  
Men writer Chris  
Claremont,  
artist/writer/director  
Frank Miller (Sin City,  
300), comic analyst Scott  
McCloud (Understanding***

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***Comics), American  
Splendor's Harvey Pekar,  
painter Alex Ross  
(Kingdom Come),  
multitalented artist and  
designer Chris Ware  
(Acme Novelty Library),***

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***artist Jill Thompson  
(Sandman), and more.  
Leaping Tall Buildings,  
like comics themselves,  
uses both words and  
images to tell the true  
story of the comic's birth***



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***and evolution in America.  
It is a comprehensive look  
at the medium unlike any  
other ever compiled  
covering high and low art,  
mass market work and  
niche innovations. It is***

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***the story of an art form  
and an insider's look at  
the creative process of  
the artists who bring our  
heroes to life.***

***In-depth coverage of the  
latest tall and super tall***

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***building designs and  
examples from around the  
world Featuring  
contributions from 30  
global experts involved in  
the planning and design  
of the structures covered***

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***in this book, Tall and  
Supertall Buildings  
describes the technical  
developments and special  
design features used for  
these landmark buildings:  
Sears Tower \* Taipei 101***

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**\* *Burj Khalifa* \* *Petronas  
Towers* \* *Shanghai Tower*  
\* *Kingdom Tower* This  
*authoritative resource  
addresses HVAC systems,  
sustainability,  
geotechnical and***

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***foundation engineering, wind engineering, and more. Construction photographs and detailed diagrams are included throughout. This is the definitive guide for***

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***engineers, architects, project managers, building inspectors, and anyone involved in the planning and design of tall and supertall buildings.***

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***Drawing on the  
experience of several  
cities from different parts  
of the world, this text  
provides a global  
perspective on the  
urbanization phenomenon***

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***and tall building  
development, and  
examines their underlying  
logic, design drivers,  
contextual relationships  
and pitfalls.***

***ASHRAE Design Guide for***

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Acces PDF Tall And Super Tall  
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***Tall, Supertall, and  
Megatall Building  
Systems***

***Improving the  
Understanding of  
Placemaking,  
Imageability, and***

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***Tourism***

***Second Century of the Skyscraper***

***The Tallest Buildings***

***High-Rise Living in Asian Cities***

*Outrigger systems are rigid*

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*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*

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*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*

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*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*

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*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*

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*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*



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*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*

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*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*

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*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*

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*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*

## Acces PDF Tall And Super Tall Buildings Planning And Design

*efficiency and stability of tall buildings around the world. The global boom in skyscrapers—why it's happening now, how they're made, and what they do to cities and people. We are living*

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*in a new urban age, and its most tangible expression is the “supertall”: megastructures that are dramatically bigger, higher, and more ambitious than any in history. Cities around the world are racing to*

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*build the first mile-high building, stretching the limits of engineering and design as never before. In this fascinating work of urban history and design, TED resident Stefan Al—himself an experienced*

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*architect—explores the factors that have led to this worldwide boom. He reveals the marvelous and underappreciated feats of engineering that make today's supertalls a reality, from double-decker elevators that silently*



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*move up to 50 miles per hour to the sophisticated blend of polymers and steel fibers that enables concrete to withstand 8,000 tons of pressure per square meter. Taking readers behind the scenes of the*

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*building and design of remarkable megastructures, both from the past (the Empire State Building, St. Paul's Cathedral, the Eiffel Tower) and the present (Dubai's Burj Khalifa, London's Shard,*

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*Shanghai Tower), Al demonstrates the impact of these innovations. Yet while the supertall is undoubtedly a testament to great technological victories, it can come at an environmental and*

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*social cost. Focusing on four global cities—London, New York, Hong Kong, and Singapore—Al examines the risks of wealth inequality, carbon emissions, and contagion that stem from*

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*supertalls. And he uncovers the latest innovations in sustainable building, from skyscrapers made of wood to tree-covered buildings, that promise to yield a better urban future.*

*Featuring more than thirty*

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*architectural drawings, Supertall is both a fascinating exploration of our greatest accomplishments and a powerful argument for a more equitable way forward. Complete reference book,*

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*beautifully illustrated, of the world's tall buildings.*

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

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*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*



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*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*

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*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*

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*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*

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*interest in sustainable urban development.*

*Design and Analysis of Tall and Complex Structures*

*Wind-induced Motion of Tall Buildings*

*The Birth and Growth of*

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*Manhattan's Skyscrapers  
How High Can We Go?  
Architecture Matters  
Tall Buildings and Urban  
Design*

This state-of-the-art report describes various facets of the

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human response to wind-induced motion in tall buildings and identifies design strategies to mitigate the effects of such motion on building occupants. This second edition of *Designing Tall Buildings*, an accessible reference to guide you through

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the fundamental principles of designing high-rises, features two new chapters, additional sections, 400 images, project examples, and updated US and international codes. Each chapter focuses on a theme central to tall-building design, giving a comprehensive

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overview of the related architecture and structural engineering concepts. Author Mark Sarkisian, PE, SE, LEED® AP BD+C, provides clear definitions of technical terms and introduces important equations, gradually developing your knowledge.



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Projects drawn from SOM's vast portfolio of built high-rises, many of which Sarkisian engineered, demonstrate these concepts. This book advises you to consider the influence of a particular site's geology, wind conditions, and seismicity. Using this contextual

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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

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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.

This work includes a brief history

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of skyscrapers as well as chapters on elevators and communications, facades and facing, mechanical and electrical systems, forces of nature, and much more.

The structural challenges of building 800 metres into the sky

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are substantial, and include several factors which do not affect low-rise construction. This book focusses on these areas specifically to provide the architectural and structural knowledge which must be taken into account in order to design

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tall buildings successfully. In presenting examples of steel, reinforced concrete, and composite structural systems for such buildings, it is shown that wind load has a very important effect on the architectural and structural design. The

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aerodynamic approach to tall buildings is considered in this context, as is earthquake induced lateral loading. Case studies of some of the world's most iconic buildings, illustrated with full colour photographs, structural plans and axonometrics, will bring

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to life the design challenges which they presented to architects and structural engineers. The Empire State Building, the Burj Khalifa, Taipei 101 and the HSB Turning Torso are just a few examples of the buildings whose real-life



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specifications are used to explain and illustrate core design principles, and their subsequent effect on the finished structure.

The Environmental Performance of Tall Buildings

Designing Tall Buildings

Structural Systems and Tuned

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Mass Dampers of Super-tall Buildings

Designing High-density Cities for Social and Environmental Sustainability

The Future of the City  
Structural Systems and Aerodynamic Form

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*This history of skyscrapers examines how these tall buildings affected the cityscape and the people who worked in, lived in, and visited them. Much of the focus is rightly on the architects who had the vision to design and*

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*build America's skyscrapers, but attention is also given to the steelworkers who built them, the financiers who put up the money, and the daredevils who attempt to "conquer" them in some inexplicable pursuit of fame. The*

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*impact of the skyscraper on popular culture, particularly film and literature, is also explored. The design of tall buildings and complex structures involves challenging activities, including: scheme design, modelling,*

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*structural analysis and detailed design. This book provides structural designers with a systematic approach to anticipate and solve issues for tall buildings and complex structures. This book begins with a clear and rigorous*

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*exposition of theories behind designing tall buildings. After this is an explanation of basic issues encountered in the design process. This is followed by chapters concerning the design and analysis of tall building with*

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*different lateral stability systems, such as MRF, shear wall, core, outrigger, bracing, tube system, diagrid system and mega frame. The final three chapters explain the design principles and analysis methods for complex and special*



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*structures. With this book, researchers and designers will find a valuable reference on topics such as tall building systems, structure with complex geometry, Tensegrity structures, membrane structures and offshore structures.*

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*Numerous worked-through examples of existing prestigious projects around the world (such as Jeddah Tower, Shanghai Tower, and Petronas Tower etc.) are provided to assist the reader's understanding of the topics. •*

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*Provides the latest modelling methods in design such as BIM and Parametric Modelling technique. • Detailed explanations of widely used programs in current design practice, such as SAP2000, ETABS, ANSYS, and Rhino. •*

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*Modelling case studies for all types of tall buildings and complex structures, such as: Buttressed Core system, diagrid system, Tube system, Tensile structures and offshore structures etc.*

*Drawing from the unique design*

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*experience at Adrian Smith + Gordon Gill Architecture (AS+GG) as architects of the next world's tallest tower and several others under construction, "Supertall | Megatall: How High Can We Go?" highlights the design,*

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*sustainability, innovative technology, programming, and contextualism that defines supertall and megatall towers. The book is a mixture of under construction and design-only projects divided into several*

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*chapters that are organized according to their special characteristics: Innovative Systems, Harnessing Energies, Designing an Icon, Extending Ecologies, and Achieving Megatall. Each project, completed between*

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*2007-2020 at AS+GG, is discovered through context, program, form, research and development, and performance, highlighting the stories, challenges, and lessons learned. tenant is looming in importance.*



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*The owner is having more influence on the building. As Gerald D. Hines has said, there are indications that the desire for more discretionary time will lead to more residential high-rises dose to or in the midst of downtown*

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*office buildings. Downtown living could become the desired alternative. Tall buildings will be approached increasingly from the standpoint of an urban ecology - that what happens to a part can influence the whole. Providing for*

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*public as well as private needs in a tall building project is just one example (facilities for schools, shops, religious, and other needs). More attention will be paid to maintaining streets as lively and interesting places. Will a new*

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*"world's tallest" be built? Will we go a mile high? The answer is probably "yes" to the first, "no" to the second. With the recent spate of super-tall buildings on the drawing boards, going to greater heights was in the back of many*

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*people's minds at the Chicago conference. But in the U nited States, at least, buildings of 70 to 80 stories would appear to provide needed space consistent with economy. The future, then, is described in depth by papers that*

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*go into specific areas.*

*Fire Safety for Very Tall Buildings*

*Outrigger Design for High-Rise Buildings*

*Tall Building Foundation Design*

*Tall Buildings*

*Tall Buildings of China*

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## *Structure as Architecture*

The Guide to Meeting the Challenges of Tall Buildings Tall buildings present unique and formidable challenges to architects and engineers because of their size, location in major urban areas, and the multiple, complex occupancies they often contain. ASHRAE Design

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Guide for Tall, Supertall, and Megatall Building Systems is a unique reference for owners; architects; and mechanical, structural, and electrical engineers as well as other specialized consultants involved in designing systems for these buildings. Expanded since ASHRAE's previous guide on the topic in 2004, this



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new design guide covers not only tall buildings (taller than 300 ft [91 m]) but now also addresses supertall (taller than 984 ft [300 m]) and megatall (taller than 1968 ft [600 m]) buildings, with a broadened scope and updated content that reflects current standards and industry practices. This guide not only

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focuses on the efforts of designers of the HVAC systems but also addresses the importance of the design team and their collective efforts and concerns that are the critical elements in determining the ultimate solutions to the project needs of a tall building. This guide addresses design issues for tall

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commercial buildings, which are very often mixed use, with low-level retail, office floors, residential floors, and hotel floors. Major sections cover the following subjects: ; Architectural design ; Façade systems ; Climate data ; Indoor air quality (IAQ) and thermal comfort ; HVAC systems ;

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Electrical system interfaces; Intelligent buildings and controls; Water distribution; Plumbing systems; Energy modeling and authentication; Vertical transportation; Life safety; Needs of residential occupancies. Also included are appendices with examples of stack effect and wind pressure for

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four representative climates, energy analysis examples, and HVAC design criteria and a systems description for a multiple-tenant office building.

We are living in a new urban age and its most tangible expression is the "supertall" megastructures that are dramatically bigger, higher, and more

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ambitious than any in history. In Supertall, TED Resident Stefan Al--himself an experienced architect who has worked on some of the largest buildings in the world--reveals the advancements in engineering, design, and data science that have led to this worldwide boom. Using examples from

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the past (the Empire State Building, St. Paul's Cathedral, the Eiffel Tower) and present (Dubai's Burj Khalifa, London's Shard, Shanghai Tower), he describes how the most remarkable skyscrapers have been designed and built. He explores the ingenious technological innovations--in cement, wind

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resistance, elevator design, and air-conditioning--that make the latest megastructures a reality. And he examines the risks of wealth inequality, carbon emissions, and contagion they yield while arguing for a more sustainable, resilient, and equitable built environment for everyone.



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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.

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Bungale S. Taranath, this work explains the fundamental principles and state-of-the-art technologies required to build vertical structures as sound as they are eloquent. Dozens of cases studies of tall buildings throughout the world, many designed by Dr. Taranath, provide in-depth insight on why and

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how specific structural system choices are made. The book bridges the gap between two approaches: one based on intuitive skills and experience and the other based on computer skills and analytical techniques. Examining the results when experiential intuition marries unfathomable precision, this

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book discusses: The latest building codes, including ASCE/SEI 7-05, IBC-06/09, ACI 318-05/08, and ASCE/SEI 41-06 Recent developments in studies of seismic vulnerability and retrofit design Earthquake hazard mitigation technology, including seismic base isolation, passive energy

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dissipation, and damping systems  
Lateral bracing concepts and gravity-resisting systems Performance based design trends Dynamic response spectrum and equivalent lateral load procedures Using realistic examples throughout, Dr. Taranath shows how to create sound, cost-efficient high rise

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structures. His lucid and thorough explanations provide the tools required to derive systems that gracefully resist the battering forces of nature while addressing the specific needs of building owners, developers, and architects. The book is packed with broad-ranging material from

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fundamental principles to the state-of-the-art technologies and includes techniques thoroughly developed to be highly adaptable. Offering complete guidance, instructive examples, and color illustrations, the author develops several approaches for designing tall buildings. He demonstrates the benefits

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of blending imaginative problem solving and rational analysis for creating better structural systems.

Supertall: How the World's Tallest Buildings Are Reshaping Our Cities and Our Lives  
W. W. Norton & Company  
101 of the World's Tallest Buildings  
From Engineering to Sustainability



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Engineering Guide

Reinforced Concrete Design of Tall Buildings

How the World's Tallest Buildings Are Reshaping Our Cities and Our Lives

Damping Technologies for Tall Buildings

Taranath provides case studies

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of buildings constructed in the past two decades to give insight into why and how structural systems were chosen. Particular emphasis is placed on wind and seismic forces.

The Tall Buildings Reference

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Book

Supertall

A Theory of Placemaking