The Future Of Tall

Eventually, you will very discover a extra experience and finishing by spending more cash. yet when? reach you bow to that you require to get those every needs similar to having significantly cash? Why dont you try to acquire something basic in the beginning? Thats something that will guide you to understand even more on the order of the globe, experience, some places, in the same way as history, amusement, and a lot more?

It is your enormously own period to ham it up reviewing habit. accompanied by guides you could enjoy now is **the future of tall** below.

New Suburbanism: Sustainable Tall Building Development - Kheir Al-Kodmany 2016-04-14
Much of the anticipated future growth in the United States will take place in suburbia. The critical 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 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 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 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 suburban settings.
Second Century of the Skyscraper - Council on Tall Buildings & Urban 1988
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Tall Buildings + Urban Habitat - Steven Henry 2018-05-30
Tall Buildings are changing the fabric of cities around the entire globe. After a century of development in which tall buildings were largely commercially driven "machines to make the land pay," deeper agendas are now afoot. These agendas are aimed at creating more socially, culturally, and environmentally appropriate buildings that deliver greater urban density and more sustainable cities into the future.Providing a global overview of tall building design and construction in a given year, this book explores the projects, technologies, and approaches currently reshaping skylines and urban spaces worldwide. Discover how tall buildings are evolving into better stewards of the urban environment through contemporary design practices, advanced construction techniques, and a greater emphasis on human comfort.The Tall Buildings + Urban Habitat series is produced by the Council on Tall Buildings and Urban Habitat (CTBUH), the global authority on the inception, design, construction, and operation of tall buildings and future cities.
A Tower Stands Tall - Kylie Burns 2018-09-25
Towers are tall, narrow structures used for many purposes, from measuring and predicting weather to offering a bird's-eye view of surroundings. This interesting book takes children through the engineering design process, giving them an inside look at how engineers design towers to suit specific purposes and hold steady in different environments. Reader-centered examples illustrate concepts for children, and a model-building activity allows them to design their own tower solution.
Best Tall Buildings: CTBUH Awards - Antony Wood 2016-11-30
The Council on Tall Buildings and Urban Habitat (CTBUH) is the world’s foremost authority on tall buildings. Best Tall Buildings chronicles the annual awards process, in which the CTBUH recognizes outstanding tall buildings and design innovations that advance the potential of integrated sustainability, economic productivity, and social prosperity in cities across the world. More than an awards book, this volume serves as a global overview of tall building construction and activity in a given year, providing in-depth description of the buildings’ design and significance, accompanied by stunning images, detailed drawings, and plans. This book provides fascinating and inspiring reading for all those interested in the planning, design, and construction of tall buildings. CTBUH bestows 11 awards annually, four of which are given to buildings in various geographical regions: Americas, Asia & Australasia, Europe, and Middle East & Africa. The title of overall Best Tall Building Worldwide is then presented to one of the four regional winners at the annual CTBUH Awards Symposium and Ceremony. Additionally, the Urban Habitat Award recognizes significant contributions to the urban realm, in connection with tall buildings. The 10 Year Award recognizes proven value and performance—across one or more of a wide range of criteria—after a building has been complete and in operation for a decade. The Innovation Award recognizes a specific area of recent innovation in the tall building industry that has been incorporated into the design of, or significantly tested in, the construction, operation, or refurbishment of a tall building project. The Performance Award recognizes a building with proven value and performance over a minimum of three years. The CTBUH also gives two annual Lifetime Achievement Awards to individuals who have made significant contributions to the design or technical advancement of tall buildings.
The Future of Tall - Antony Wood 2015

Taipei 101 - Georges Binder 2008
A monograph on the world's tallest building, rising 101 stories above its surrounding environment.
Skyscrapers - Andres Lepik 2008
The evolution of the skyscraper reveals a fascinating success story that began near the end of the 19th century. Not only have skyscrapers fundamentally transformed our cities, they have also drastically altered the way we perceive architecture. Alongside the ongoing contest to erect the world's tallest building, skyscrapers are associated with a large number of architectonic, technological, ecological, and urban aspects. Buildings by architects such as Ludwig Mies van der Rohe, I. M. Pei, Philip Johnson, or Norman Foster are genuine milestones, setting the standards according to which future high-rise buildings will be measured. No other form of construction can replace skyscrapers as a response to the exponentially increasing need for space in the centers of the world's metropolises. The present moment seems to be a well-chosen time to reconsider the developmental history of the high-rise, to examine its most significant specimens, and to venture a look into the future of this unique type of building.
Structural Systems for Tall Buildings - Committee Structural Systems Council on Tall Buildings and Urban Habitat 1995
"If you're an engineer or architect, you can't afford to be without this unique database of structural systems used in the design of some of the most important tall buildings erected to date." "Structural Systems for Tall Buildings reviews all major types of structural systems, including lateral load resisting systems ...

gravity load resisting systems ... and systems for the future. The book explains how each is typically used for a given design problem, and discusses the pros and cons for each major type." "You'll find a handy classification system of tall buildings by structural type - plus solutions to special problems such as floor vibrations, damping for structural sway, lateral load design, and new experimental structural designs like outrigger stabilizers." "Filled with hundreds of drawings and photographs, this incomparable sourcebook features contributions from some of the most renowned engineers in the world." "With the help of this expert guide, you'll always be able to choose the best structural option for any project - one that can handle expected loads, is cost-effective and efficient to construct, and delivers the architectural solution sought by the client."--BOOK JACKET.Title Summary field provided by Blackwell North America, Inc. All Rights Reserved

Tall: the design and construction of high-rise architecture - Guy Marriage 2019-09-24

This is a guide to both the basics and the details of tall building design, delving into the rudimentary aspects of design that an architect of a tall office building must consider, as well as looking at the rationale for why and how a building must be built the way it is. Liberally illustrated with clear, simple black and white illustrations showing how the building structure and details can be built, this book greatly assists the reader in their understanding of the building process for a modern office tower. It breaks down the building into three main components: the structure, the core and the facade, writing about them and illustrating them in a simple-to-understand manner. By focusing on the nuts and bolts of real-life design and construction, it provides a practical guide and desk-reference to any architect or architecture student embarking on a tall building project.

100 of the World’s Tallest Buildings - Antony Wood 2015-08-28

Upon the release of the 100 of the World’s Tallest Buildings, the first 100 of the world’s tallest buildings will be more than 985 feet (300 meters) for the first time. This book will showcase many of the new tall builds across Asia and the Middle East, in particular. Compiled by the CTBUH (Council on Tall Buildings and Urban Habitat), with insightful introductory essays on key trends in the skyscraper typology (a preview of the future) and by renowned tall buildings expert, Georges Binder, on the history of the world’s tallest buildings by decade, this ambitious and comprehensive text provides in-depth descriptions of the buildings’ design and significance, accompanied by stunning images, detailed drawings, and plans. Towering structures are oftentimes the subject of admiration only for their sheer height or skyline silhouette, and oftentimes criticized for their poor environmental performance (and not without justification). This book aims to change that impression by showing innovations that are particular to this group of tall buildings, in addition to generally good architectural design and engineering prowess. The CTBUH’s Awards series draws from the multi-disciplinary expertise of the practitioners directly involved in bringing these buildings to life. This guide is intended for anyone working on the design and operation of tall buildings at both the building and urban scales.

Understanding Tall Buildings - Kheir Al-Kodmany 2017-02-17

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

The Tall Building Artistically Reconsidered - Ada Louise Huxtable 1984

Scrutinizes the skyscraper as art, as business, and as the product of politics and speculation, surveying its history and its probable future developments

Damping Technologies for Tall Buildings - Dario Trabucco 2018-10-15

Damping Technologies for Tall Buildings provides practical advice on the selection, design, installation and testing of damping systems. Richly illustrated with images and schematics, this book presents expert commentary on different damping systems, giving readers a way to accurately compare between different device categories and gain and understand the advantages and disadvantages of each. In addition, the book covers their economical and sustainability implications. Case studies 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 types of damping technologies Drawn from extensive contributions from international experts and research projects that represent the current state-of-the-art and design in damping technologies Includes 25+ real case studies collected with very detailed information on damping design, installation, testing and other building implications

The Future of the City - Kheir Al-Kodmany 2013

Drawing on the experience of several cities from different parts of the world, this text provides a global perspective on the urbanization phenomenon and tall building development, and examines their underlying logic, design drivers, contextual relationships and pitfalls.

Tall Buildings of Europe, Middle East & Africa - Georges Binder 2006

Complete reference book, beautifully illustrated, of the world's tall buildings.

Arup’s Tall Buildings in Asia - Goman Wai-Ming Ho 2017-10-12

Through a series of 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 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, Vietnam and Japan. Chapters cover design and construction, safety concerns, sustainability strategies, BIM and optimisation solutions, and include contributions 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 values. Arup’s engineers explain the design principles, and how they overcame various design constraints and challenges, while exceeding their clients’ expectations. Unique examples include: the design and application of a hybrid outrigger system in the Raffles City Chongqing project the challenges encountered in 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, 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 engineering challenges which make this book essential reading for architects, structural engineers, project managers and researchers of high-rise buildings. The book also provides a usual reference and link between practitioners in the industry, academia and engineering students.

The Environmental Performance of Tall Buildings - Joana Carla Soares Goncalves 2010-09-23

Tall buildings represent one of the most energy-intensive architectural typologies, while at the same time offering the high density work and living conditions that many believe will 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 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) 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 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 with tall buildings, and researchers/students in these disciplines.

Tall Building Foundation Design - Harry G. Poulos 2017-07-20

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.
Roadmap on the Future Research Needs of Tall Buildings - Philip Oldfield 2014-01-01

New Suburbanism: Sustainable Tall Building Development - Kheir Al-Kodmany 2016-04-14
Much of the anticipated future growth in the United States will take place in suburbia. The critical 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 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 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 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 suburban settings.
Tall Men, Short Shorts - Leigh Montville 2021-07-13
This "part memoir, part sports story" (Wall Street Journal) from the New York Times bestselling author of The Big Bam chronicles the clash of NBA titans over seven riveting games—Celtics versus Lakers, Russell versus Chamberlain—covered by one young reporter. Welcome to the 1969 NBA Finals! They don’t set up any better than this. The greatest basketball player of all time - Bill Russell - and his juggernaut Boston Celtics, winners of ten (ten!) of the previous twelve NBA championships, squeak through one more playoff run and land in the Finals again. Russell’s opponent? The fearsome 7’1” next-generation superstar, Wilt Chamberlain, recently traded to the LA Lakers to form the league’s first dream team. Bill Russell and John Havlicek versus Chamberlain, Jerry West and Elgin Baylor. The 1969 Celtics are at the end of their dominance. The 1969 Lakers are unstoppable. Add to the mix one newly minted reporter. Covering the epic series is a wide-eyed young sports writer named Leigh Montville. Years before becoming an award-winning legend himself at The Boston Globe and Sports Illustrated, twenty-four-year-old Montville is ordered by his editor at the Globe to get on a plane to L.A. (first time!) to write about his luminous heroes, the biggest of big men. What follows is a raucous, colorful, joyous account of one of the greatest seven-game series in NBA history. Set against a backdrop of the late sixties, Montville’s reporting and recollections transport readers to a singular time – with rampant racial tension on the streets and on the court, with the emergence of a still relatively small league on its way to becoming a billion-dollar industry, and to an era when newspaper journalism and the written word served as the crucial lifeline between sports and sports fans. And there was basketball – seven breathtaking, see-saw games, highlight-reel moments from an unprecedented cast of future Hall of Famers (including player-coach Russell as the first-ever black head coach in the NBA), coast-to-coast travels and the clack-clack-clack of typewriter keys racing against tight deadlines. Tall Men, Short Shorts is a masterpiece of sports journalism with a charming touch of personal memoir. Leigh Montville has crafted his most entertaining book yet, richly enshrining luminous players and moments in a unique American time.
Building the Skyline - Jason M. Barr 2016-05-12
The Manhattan skyline is one of the great wonders of the modern world. But how and why did it form? Much has been 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. 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 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 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 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 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.
Tall Wood Buildings - Michael Green 2020-03
Tall wood buildings have been at the foreground of innovative building practice in urban contexts for a number of years. From London to Stockholm, from Vancouver to Melbourne timber buildings of up to 20 storeys have been built, are under construction or being considered. This dynamic trend was enabled by developments in the material itself, prefabrication and more flexibility in fire regulations. The low CO2 footprint of wood - often regionally sourced - is another strong argument in its favour. This publication explains the typical construction types such as panel systems, frame and hybrid systems. An international selection of 13 case studies is documented in detail with many specially prepared construction drawings, demonstrating the range of the technology.
Architecture of Tall Buildings - Council on Tall Buildings and Urban Habitat. Committee 30 (Architecture) 1995

Skyscrapers of the Future - Carlo Aiello 2011-01-01
No other architectural genre captures our imagination and reflects our cultural and technological achievements like these towers that pierce the sky. We start off with the history and evolution of building high, from the Egyptian pyramids, Gothic cathedrals, and first American skyscrapers to the contemporary reality in Asia and the Middle East. We present two fascinating interviews, the first one with Carol Willis, the founder and director of the Skyscraper Museum in New York City, who explains the true genetics and economics behind the birth and future of the skyscraper. The second one with Italian artist, Giacomo Costa, who shares his vision about the relationship between the natural environment, human activity, and supernatural reality with provocative images of an apocalyptic urban future. Javier Quintana exposes the time gap between new architectural concepts and their built reality like Arne Hosek’s City of the Future designed in 1928 and materialized in 1998 by Cesar Pelli as the Petronas Towers in Kuala Lumpur or Sergei Lopatin’s 1925 idea for the Veshenka Tower in Moscow, later observed as the Willis Tower (former Sears Tower) in Chicago in 1974. Another group of essays explore the global influence of Manhattan as a contemporary Babylon to be replicated across the world, or the role of the Italian Futurists, Japanese Metabolists, and Archigram, who influenced generations of architects and designers to push forward the concept of vertical living. In the Opinion section you will find critiques on some of the latest ideas for skyscraper design by some of the most forward-looking architects like the concept of pixilated tectonics in Le Project Triangle in Paris by Herzog & de Meuron and the Sky Village by MVRDV. On the other hand, Jean Nouvel redefined the Italian loggia towers of the seventeenth century with the Tour Signal in La Defense, Paris; while Morphosis Architects explores new programs for vertical density with The Phare Tower. Lastly, Studio SHIFT masterfully integrates their Miyi Tower in Sichuan, China, with the existing landscape. Central to this book are thirty projects from eVolo’s 2009 Skyscraper Competition which look into the future of the skyscraper with the use of new technologies, programs, and aesthetic expression. Sustainability, globalization, flexibility, and adaptability are just some of the multi-layered elements explored by some the entries. You will find examples of cities in the sky, horizontal skyscrapers that link various cities, or emergency architecture for disaster zones.
So Tall Within - Gary D. Schmidt 2018-09-25
Shows how the hardships of slavery, particularly the loss of her family, caused Isabella Baumfree to walk towards freedom, to re-invent herself as Sojourner Truth, and to continue walking to abolish slavery and for other reforms.

The Tall Buildings Reference Book - David Parker 2013-04-12
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.
Tall Buildings + Urban Habitat - Steven Henry 2019-04-08
With the majority of Earth's population now residing in urban areas, city-makers have an obligation to forge a more viable, sustainable urban habitat, with increased urban density playing an important role. Tall buildings need to be seen as integrated pieces of urban infrastructure, dedicated to improving quality of life in the city as a whole. This requires a cohesive, multi-disciplinary response.Providing a global overview of dense urban development, this book explores the projects, technologies, and approaches currently reshaping skylines and urban spaces worldwide. In this edition, innovations in the constituent disciplines that bring tall buildings to life, and even extend their lives-construction, the engineering of façades, fire & risk, geotechnical engineering, interior space, MEP, renovation, and structural engineering-are all explored. The Tall Buildings + Urban Habitat book is produced annually by the Council on Tall Buildings and Urban Habitat (CTBUH), the global authority on the inception, design, construction, and operation of tall buildings and future cities.
Understanding Tall Buildings - Kheir Al-Kodmany 2017-02-17
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The Environmental Performance of Tall Buildings - Joana Carla Soares Goncalves 2016-05-06
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Second Century of the Skyscraper - Council on Tall Buildings & Urban 2012-11-25
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Short - John Schwartz 2010-04-13
A SURVIVAL GUIDE TO GROWING UP SHORT. Part science book, part memoir—a book for everyone concerned about looking (or feeling) different. When veteran journalist John Schwartz took a close look at famous height studies, he made a surprising discovery: being short doesn't have to be a disadvantage! Part advice book, part memoir, and part science primer, this fascinating book explores the marketing, psychology, and mythology behind our obsession with height and delivers a reassuring message to kids of all types that they can walk tall—whatever it is that makes them different. Short is a 2011 Bank Street - Best Children's Book of the Year.
Tall Wood Buildings - Michael Green 2020-03-09
Tall wood buildings have been at the foreground of innovative building practice in urban contexts for a number of years. From London to Stockholm, from Vancouver to Melbourne timber buildings of up to 20 storeys have been built, are under construction or being considered. This dynamic trend was enabled by developments in the material itself, prefabrication and more flexibility in fire regulations. The low CO2 footprint of wood - often regionally sourced - is another strong argument in its favour. This publication explains the typical construction types such as panel systems, frame and hybrid systems. An international selection of 13 case studies is documented in detail with many specially prepared construction drawings, demonstrating the range of the technology.
Planning for Tall Buildings - Michael J. Short 2012
In a time of recession, the challenge of building and planning for tall buildings has become even more complex; the economics of development, legislative and planning frameworks, and the local politics of development must be navigated by those wishing to design and construct new tall buildings which fit within the fabric of their host cities. This book is a timely contribution to the debate about new tall buildings and their role and effect on our cities. It is divided into two main parts. In part one, the relationship between tall buildings and planning is outlined, followed by an exploration of the impacts that construction of tall buildings can have. It focuses, in particular, on the conservation debates that proposals for new tall buildings raise. The first part ends with an analysis of the way in which planning strategies have evolved to deal with the unique consequences of tall buildings on their urban locations. The second part of the book focuses on seven examples of medium-sized cities dealing with planning and conservation issues, and implications that arise from tall buildings. These have been chosen to reflect a wide range of methods to either encourage or to control tall buildings that cities are deploying. The case studies come from across the western world, covering England (Manchester, Liverpool, Newcastle and Birmingham), Norway (Oslo), Ireland (Dublin) and Canada (Vancouver) and represent a broad spectrum of approaches to dealing with this issue. In drawing together the experiences of these varied cities, the book contributes to the ongoing

debate about the role of the tall building in our cities, their potential impacts, and experiences of those who use and inhabit them. The conclusions outline how cities should approach the strategic planning of tall buildings, as well as how they should deal with the consequences of individual buildings, particularly on the built heritage.

Life Cycle Assessment of Tall Building Structural Systems - Dario Trabucco 2015

We now find ourselves in an age where "green design" is at the forefront of many tall building projects around the world, where it seems that every year brings new technologies and innovations that are touted as the be-all and end-all for a long-term sustainable future. But these solutions tend to only reduce the environmental impacts of a building during its operation phases, with the stages before and after this period often neglected. This is perhaps best illustrated by the fact that the world is currently constructing tall buildings in excess of 1,000 meters in height yet we have never demolished a building of even 200 meters in height through conventional means. Despite this reality, our cities continue to be filled with myriad skyscrapers, most of which are not given full considerations for their entire life cycle, or end-of-life. Through the Life Cycle Assessment (LCA) methodology, we can gauge the environmental consequences of human actions by analyzing the flow of materials used in a building and trace the environmental impacts linked to each stage of its life cycle. When information from each stage is combined, a holistic picture of environmental impacts can be formed for a given product, one that acknowledges the various actions that are required to bring a single entity into existence through contemporary means. This research identifies and compares the life cycle implications for the structural systems found in 60- and 120-story buildings. It is intended to inform the international community of professionals and researchers specializing in tall buildings on the life cycle environmental performance of the most common structural systems by providing the most accurate, up-to-date analysis on two key impact categories: Global Warming Potential (GWP) and Embodied Energy (EE). In doing this it presents interesting research results, and also lays down a methodology in this emerging field for others to follow.

The Sustainable Tall Building - Philip Oldfield 2019-03-27

The Sustainable Tall Building: A Design Primer is an accessible and highly illustrated guide, which primes those involved in the design and research of tall buildings to dramatically improve their performance. Using a mixture of original research and analysis, best-practice design thinking and a detailed look at exemplar case studies, author Philip Oldfield takes the reader through the architectural ideas, engineering strategies and cutting-edge technologies that are available to the tall building design team. The book takes a global perspective, examining high-rise design in different climates, cultures and contexts. It considers common functions such as high-rise housing and offices, to more radical designs such as vertical farming and vertical cemeteries. Innovation is provided by examining not only the environmental performance of tall buildings but also their social sustainability, guiding the reader through strategies to create successful communities at height. The book starts by critically appraising the sustainability of tall building architecture past and present, before demonstrating innovative ways for future tall buildings to be designed. These include themes such as climatically responsive architecture, siting a tall building in the city, zero-carbon towers, skygardens and community spaces at height, sustainable structural systems and novel façades. In doing so, the book provides essential reading for architects, engineers, consultants, developers, researchers and students engaged with sustainable design and high-rise architecture.

Supertall: How the World's Tallest Buildings Are Reshaping Our Cities and Our Lives - Stefan Al 2022-04-12

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