

Green Walls In High Rise Buildings

Green Walls in High-Rise Buildings High-rise Manual High-Rise Living in Asian Cities Tall: the design and construction of high-rise architecture High-rise Building Structures High-Rise Buildings High-rise Living Architecture of Tall Buildings Urban Redevelopment The Tall Buildings Reference Book Multi-purpose High-rise Towers and Tall Buildings High-Rise Living in Asian Cities High-rise Buildings Outrigger Design for High-Rise Buildings Sustainable High Rise Buildings in Urban Zones The Sustainable Tall Building Human Response to Tall Buildings High-Rise Security and Fire Life Safety High-rise Buildings The Design of High-rise Buildings in Smart Cities of Thailand Antony Wood, Payam Bahrami & Daniel Safarik Johann Eisele Belinda Yuen Guy Marriage Wolfgang Schueller Jerry Tracy Andrew Weaving Mir M. Ali K. Narayan Reddy David Parker H.R. Viswanath Belinda Yuen Jashwant B. Mehta Hi Sun Choi Ali Sayigh Philip Oldfield American Institute of Architects. Office of Research Programs Geoff Craighead Vichian Puncreobutr

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the council on tall buildings and urban habitat has produced four technical guides to date since the series launched in late 2012 each of these guides is the product of a ctbuh working group committees formed specifically to address focused topical subjects in the industry the intention of each guide is the same to provide working knowledge to the typical building owner or professional who wants a better understanding of available options for improving tall buildings and what affects their design the object of the series is to provide a tool kit for the creation of better performing tall buildings and to spread the understanding of the considerations that need to be made in designing tall this technical guide offers an extensive overview of the use of vertical vegetation in high rise buildings an indepth analysis of green walls definitions and typology including standards policies and incentives it features comprehensive case studies along with architectural theories of the public and private benefits of green walls the book delves into architect design considerations and limitations the effects of green walls on energy efficiencies and includes recommendations and future research

what constitutes a high rise building a high rise is in fact any building with more than 9 storeys and not just those striking skyscrapers which shape modern city skylines in the past architects who designed such structures used to be the exception but in the last 10 years more and more architectural offices have begun to focus on this type of building however the sheer complexity of designing and planning the construction of a high rise as opposed to other building types requires a wealth of specialized experience and expertise the high rise manual is the first comprehensive reference work on this subject all relevant aspects of such an undertaking are examined in detail by some 24 specialist authors each step is extensively documented including the initial project planning the building organisation the laying of the foundations the supporting structure the building technology the office design and the facility management theoretical contributions present the basic principles of select

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

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

authors jerry tracy jack j murphy and james j murtagh invite fire chiefs fire officers firefighters fire protection engineers building management and the greater fire community to explore high rise buildings understanding the vertical challenges as a foundation for coordination and control of high rise building operations features learn about cognitive command from many invaluable high rise fire case histories manage and respond to all hazards events within the high rise environment for generations to come a guideline and reference for fire professionals building owners and system engineers the building construction community property managers what others are saying high rise buildings understanding the vertical challenges is literally a bible for high rise buildings protection from fire and the challenges they present to firefighters paul grimwood kent uk fire and rescue service ph d principal fire protection engineer high rise buildings understanding the vertical challenges fills an important void in high rise firefighting and is an important asset to fire officers glenn p corbett fire engineering magazine technical editor

a noted designer surveys twenty five beautiful high rise apartments from europe asia canada australia and the united states exploring the history of high rise living and the architects who envisioned it as a solution to the population problem 10 000 first printing

with special reference to hyderabad city india

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

interest continues to develop in the design and construction of high rise towers and tall buildings structures with heights ranging from 75m to 500m and even more this volume presents the papers from the third in a series of international conferences on the subject organised by the international federation of high rise structures the papers hav

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outrigger systems are rigid horizontal structures designed to improve a building s stability and strength by connecting

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

this unique reference gathers numerous new studies examining specific prominent high rise buildings around the world each nuanced study included undertakes the following pivotal considerations environmental impacts safety social acceptability energy consumption and comfort planning contexts within the urban zone physical footprint and size services and risks and a careful assessment of advantages and challenges architects and engineers exploring and optimizing sustainable building practices energy managers municipal and private project planners as well as students will find edification and inspiration in the analysis provided by esteemed practitioners and professors within this fascinating volume

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

high rise security and fire life safety 3e is a comprehensive reference for managing security and fire life safety operations within high rise buildings it spells out the unique characteristics of skyscrapers from a security and fire life safety perspective details the type of security and life safety systems commonly found in them outlines how to conduct risk assessments and explains security policies and procedures designed to protect life and property craighead also provides guidelines for managing security and life safety functions including the development of response plans for building emergencies this latest edition clearly separates out the different types of skyscrapers from office buildings to hotels to condominiums to mixed use buildings and explains how different patterns of use and types of tenancy impact building security and life safety differentiates security and fire life safety issues specific to office towers hotels residential and apartment buildings mixed use buildings updated fire and life safety standards and guidelines includes a cd rom with electronic versions of sample survey checklists a sample building emergency management plan and other security and fire life safety resources

the objective of this research on the design of high rise buildings in the smart cities of thailand is to study the competitiveness in the construction of the smart cities in thailand and to study the design of the construction of high rise buildings in thailand this is a qualitative research by document analysis observation in the target area and in depth interview the sample group consisted of those involved in the development of special economic zone and those involved in giving the commercial bank credit and 16 main informants from the study it is found that 1 in the competitiveness of the construction of the smart cities in thailand there are not many experts who could construct the high rise building in accordance with the design evaluation criteria the competition is not high but there is a very high investment risk 2 the design of high rise construction in the smart cities of thailand is to consider from designing the building construction by using the building technology in the construction designing the use of energy inside the building and the interior design that the designed construction is outstanding different modern indicating the vision of being in the smart cities of using ict innovation in the building with the design of net zero energy consumption this will capture the interest of the people in the smart cities

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