



# High Rise Building Design Guide

**Andrew K. Persily**



## High Rise Building Design Guide:

*High-rise Manual* Johann Eisele, Ellen Kloft, 2003 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 **Tall Buildings** British Council for Offices, 2005 A guide to the key technical aspects to be considered in generating understanding and evaluating tall building proposals This book covers urban design architecture engineering life safety construction economics market economics and building occupancy Its geographical context is primarily the UK with a focus on London Building Type Basics for Office Buildings A. Eugene Kohn, Paul Katz, 2002-07-29 Building Type Basics books provide architects with the essentials they need to jump start the design of a variety of specialized facilities In each volume leading national figures in the field address the key questions that shape the early phases of a project commission The answers to these questions provide instant information in a convenient easy to follow format The result is an excellent hands on reference that puts critical information at your fingertips

Structural Analysis and Design of Tall Buildings Bungale S. Taranath, 2016-04-19 As software skills rise to the forefront of design concerns the art of structural conceptualization is often minimized Structural engineering however requires the marriage of artistic and intuitive designs with mathematical accuracy and detail Computer analysis works to solidify and extend the creative idea or concept that might have started out as a sketch on the back of an envelope From Sketches on the Back of an Envelope to Elegant Economical Buildings The Art of Structural Conceptualization Bridging the gap between the conceptual approach and computer analysis Structural Analysis and Design of Tall Buildings Steel and Composite Construction integrates the design aspects of steel and composite buildings in one volume Using conceptual thinking and basic strength of material concepts as foundations the book shows engineers how to use imperfect information to estimate the answer to larger and more complex design problems by breaking them down into more manageable pieces Written by an accomplished structural engineer this book discusses the behavior and design of lateral load resisting systems the gravity design of steel and composite floors and columns and methods for determining wind loads It also examines the behavior and design of buildings subject to inelastic cyclic deformation during large earthquakes with an emphasis on visual and descriptive analysis as well as the anatomy of seismic provisions and the rehabilitation of seismically vulnerable steel

buildings Intuitive Techniques for Construction and Design The book covers a range of special topics including performance based design and human tolerance for the wind induced dynamic motions of tall buildings It also presents preliminary analysis techniques graphical approaches for determining wind and seismic loads and graphical aids for estimating unit quantity of structural steel The final chapter deals with the art of connection design Forty case studies from New York's Empire State Building to Kuala Lumpur's Petronas Towers highlight the aspects of conceptualization that are key in the design of tall and ultra tall buildings A comprehensive design reference this book guides engineers to visualize conceptualize and realize structural systems for tall buildings that are elegant and economical **Reinforced Concrete Design of Tall**

**Buildings** Bungale S. Taranath,2009-12-14 An exploration of the world of concrete as it applies to the construction of buildings Reinforced Concrete Design of Tall Buildings provides a practical perspective on all aspects of reinforced concrete used in the design of structures with particular focus on tall and ultra tall buildings Written by Dr Bungale S Taranath this work explains t **Guide to Natural Ventilation in High Rise Office Buildings** Antony Wood,Ruba Salib,2013 This guide sets out recommendations for every phase of the planning construction and operation of natural ventilation systems in these buildings including local climatic factors that need to be taken into account how to plan for seasonal variations in weather and the risks in adopting different implementation strategies All of the recommendations are based on analysis of the research findings from richly illustrated international case studies This is the first technical guide from the Council on Tall Buildings and Urban Habitat's Tall Buildings Sustainability Working Group looking in depth at a key element in the creation of tall buildings with a much reduced environmental impact while taking the industry closer to an appreciation of what constitutes a sustainable tall building and what factors affect the sustainability threshold for tall *Condoland* James T. White,John Punter,2023-05-31 Condoland casts CityPlace a massive residential development of more than thirty condominium towers just outside Toronto's downtown core as a microcosm of twenty first century urban intensification that has transformed the city skyline beyond all recognition Built almost entirely by a single private developer this immense neighbourhood took decades to plan design and develop but the end result lacks a sense of place and is not widely accessible to those who need homes only a small number of its 13 000 units constitute affordable housing and public amenities are limited James T White and John Punter journey through the forty year development of Toronto's largest residential megaproject focusing on its urban design and architectural evolution They also delve into the background summarizing the tools used to shape Toronto's built environment and critically explore the underlying political economy of planning and real estate development in the city Using detailed field studies interviews archival research and with nearly two hundred illustrations they reveal an alarmingly flexible approach to planning and design that is acquiescent to the demands of a rapacious development industry Condoland raises key questions about the sustainability and long term resilience of city planning **Advances in Sustainable Building Materials, Design and Energy Systems** Sanjay Kumar,Brahim

ElBhiri,2025-01-23 This book is a great opportunity to make the research community discuss the dangerous environmental challenges such as climate change and its huge effects in addition to the world's reliance on fossil fuel and non renewable resources In recent years the authors have been focused on the advancements of technology and how it can improve our lives but the authors often overlook the fact that it is creating an unsustainable approach that comes at a high cost which makes a sustainable approach to cities necessary focusing on accessible public transport energy water and food security and regenerating compact fabric areas To discuss how to reach this sustainable approach IEREK held the Advances in Energy Research Materials Science and Built Environment EMBE conference from October 3 to 4 2024 with attendees from all over the world It provides an opportunity to exchange ideas and solutions on urban planning sustainable architecture climate change mitigation and innovative design The EMBE conference hosts a variety of knowledgeable keynote speakers and researchers who discussed the integration of technology in sustainable urban planning green urbanism preservation of coastal areas innovative renewable materials and responsive architecture The book covers a wide range of scientific knowledge that can lead humanity toward a sustainable and greener future

**ASHRAE Design Guide for Tall, Supertall, and Megatall Building Systems**

Peter Simmonds,2016-03-07 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 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 new design guide covers not only tall buildings taller than 300 ft 91m 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 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 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 Fa ade systems Climate data Indoor air quality IAQ and thermal comfort HVAC systems 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 four representative climates energy analysis examples and HVAC design criteria and a systems description for a multiple tenant office building

*Development of Thermal Envelope Design Guidelines for Federal Office Buildings* Andrew K. Persily,1990 Office building envelopes are generally successful in meeting a range of structural aesthetic and thermal requirements However poor thermal envelope

performance will occur when there are discontinuities in the envelope insulation and air barrier systems such as thermal bridges and air leakage sites These discontinuities result from designs that do not adequately account for heat air and moisture transmission with many thermal defects being associated with inappropriate or inadequate detailing of the connections of envelope components Despite the existence of these thermal envelope performance problems information is available to design and construct envelopes that do perform well In order to close the gap between available knowledge and current practice the Public Buildings Service of the General Services Administration has entered into an interagency agreement with the Center for Building Technology of the National Institute of Standards and Technology to develop thermal envelope design guidelines for federal office buildings The goal of this project is to transfer the knowledge on thermal envelope design and performance from the building research design and construction communities into a form that will be used by building design professionals This report describes the NIST GSA envelope design guidelines development at the end of the first year of effort on the project The effort to this point has consisted of a literature review of research results and technical information on thermal envelope performance and design an assessment of existing design guidelines as they relate to the thermal envelope and the development of a format and outline for the design guidelines *Tall Buildings* Nigel Clark,Bill Price,2016 Thoroughly reworked to reflect industry developments and experiences gained over the last ten years this second edition imparts the advice and knowledge of more than 20 highly respected industry specialists

**International Building Codes and Guidelines for Interior Design** Lisa M. Tucker,2018-10-04 This book fits a niche that doesn't seem to have been addressed so far I can easily see the case studies as a wonderful weapon for students to use to attempt to emulate for their projects Robert Paul Meden Marymount University USA Introduces you to the International Building Codes and other regulatory guidelines and shows you how to apply design solutions with illustrated case studies The book provides an overview of building codes and standards and includes a description of the permitting process document submission and compliance and occupancy of the built project The second part of the book is comprised of case studies illustrating all of the major codes areas These case studies include REVIT rendered illustrations of important details exercises practicing key concepts and end of chapter compliance checklists Special attention has been given to including both LEED and WELL Building Standards Features An innovative approach to learning codes and guidelines which presents them as an opportunity for design creativity Chapter features include learning objectives key terms case studies checklists codes tables and project exercises Includes the latest updates for IBC 2018 codes compliance Projects include both residential and commercial spaces **Design Economics for the Built Environment** Herbert Robinson,Barry Symonds,Barry Gilbertson,Ben Ilozor,2015-06-15 The drive towards environmentally friendly buildings and infrastructure has led to a growing interest in providing design solutions underpinned by the core principles of sustainability to balance economic social and environmental factors Design Economics for the Built Environment Impact of sustainability on project

evaluation presents new directions reflecting the need to recognise the impact of climate change and the importance of sustainability in project evaluation The aim is to provide a new approach to understanding design economics in the context of the changing policy environment legislative and regulatory framework and increasing economic environmental and social pressure as result of the sustainability agenda The book follows a structured approach from theories and principles in the earlier chapters to the practical applications and emerging techniques focusing on value and social economic and environmental considerations in making design decisions It starts with the policy context building on various theories and principles such as capital cost value of design and resource based theories the new rules of measurement NRM to explore cost planning the relationship between height and costs key socio economic and environmental variables for design appraisal eco cost value ratio EVR whole life theory and the treatment of carbon emission as external costs productivity and efficiency fiscal drivers and legal framework for carbon reduction procurement and allocation of risks in contracts Case studies practical examples and frameworks throughout reinforce theories and principles and relate them to current practice The book is essential reading for postgraduate students in architecture building and quantity surveying and is also a valuable resource for academics consultants and policy makers in the built environment

#### **Design for Tall Buildings in China**

Fang LI,2024-07-26 This book provides readers an approach to overall fire and life life design of high rise buildings in a way that meets all stakeholders objectives It describes how China began constructing tall and super tall buildings decades ago and imparts many lessons learned through those experiences along with similar projects from all over the world The author explains the technology and culture for tall building design in China as a context for how the world seeks to ensure fire and life safety in these remarkable structures

#### **Tall: the design and construction of high-rise architecture**

Guy Marriage,2019-09-10 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

#### **High-Rise Buildings**

Jerry Tracy,Jack Murphy,James Murtagh,2023-05-04 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 *Tall Building Design* Bungale S. Taranath,2016-10-04 Addresses the Question Frequently Proposed to the Designer by Architects Can We Do This Offering guidance on how to use code based procedures while at the same time providing an understanding of why provisions are necessary Tall Building Design Steel Concrete and Composite Systems methodically explores the structural behavior of steel concrete and composite members and systems This text establishes the notion that design is a creative process and not just an execution of framing proposals It cultivates imaginative approaches by presenting examples specifically related to essential building codes and standards Tying together precision and accuracy it also bridges the gap between two design approaches one based on initiative skill and the other based on computer skill The book explains loads and load combinations typically used in building design explores methods for determining design wind loads using the provisions of ASCE 7 10 and examines wind tunnel procedures It defines conceptual seismic design as the avoidance or minimization of problems created by the effects of seismic excitation It introduces the concept of performance based design PBD It also addresses serviceability considerations prediction of tall building motions damping devices seismic isolation blast resistant design and progressive collapse The final chapters explain gravity and lateral systems for steel concrete and composite buildings The Book Also Considers Preliminary analysis and design techniques The structural rehabilitation of seismically vulnerable steel and concrete buildings Design differences between code sponsored approaches The concept of ductility trade off for strength Tall Building Design Steel Concrete and Composite Systems is a structural design guide and reference for practicing engineers and educators as well as recent graduates entering the structural engineering profession This text examines all major concrete steel and composite building systems and uses the most up to date building codes *A Guide to Natural Ventilation Design* C. Don Manuel,2014-06-03 This book is an attempt to combine all the books literatures researches and universities masters theses available for a shortcut fundamental knowledge to design basic passive or natural ventilation in residential homes As in depth studies in passive design will take years of immense work due to so many variables involved we tried to gather just enough information to provide you the basic working knowledge to start designing your simple naturally ventilated project We also included our NV study of a high rise building that was successfully built **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 facades In doing so the book provides essential reading for architects engineers consultants developers researchers and students engaged with sustainable design and high rise architecture

### **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

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