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Construction
machines 2.

Material lift
machines 3.

Personnel lifts 4.

Tower cranes 5.

Dewatering 6.

Drilled shaft
foundations 7.

Shoring systems

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- (earth retaining structures) 8.
Diaphragm walls (slurry walls) 9.
Ground anchors (tiebacks) 10.
Basement waterproofing systems 11.
Shotcrete (sprayed concrete) 12.
Concrete 13.
Production of concrete 14.

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Despite being challenging, costly and full of risk, high-rise construction projects have

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remained popular with developers, even in the face...

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Another important technique developed for concrete high-rise construction is slipforming. In this

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process, a continuous vertical element of planar or tubular form is continuously cast using a short section of formwork that is moved upward with the pouring process.

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New construction technologies are always adopted in high-rise structures for speed, which also ensures quality, safety, and economic stability. Prefabricated steel, composite, and RCC structures with high-strength

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Concrete are adopted in high rise construction with the latest formwork techniques.

10 Construction Challenges in High-Rise Buildings [PDF]

Our modular system-based 'construction kit'

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offers the right climbing technology solution for the entire range of High Rise projects. No matter whether they are crane-dependent or crane-independent, what they all have in common is this: highest safety standard combined

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High-rise structures begin at the lowest range with the rigid frame in both steel and concrete.

Some or all of the joints between the beams and columns are rigidly joined together by

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welding the steel or pouring the concrete in situ, and lateral resistance is provided by the rigid joints; this system can rise about 90 metres (300 feet) with little premium.

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Protection Screen -
Self climbing

Protection screens
enclose the top
floors of a high rise
enabling

construction work
to be carry out in
great safety, and
protected from the
weather. The
screen will contain

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any debris and tools that would otherwise fall to the surface. The Protection screen can be moved upwards hydraulically or using a tower crane.

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construction 141 or
any previous
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technology is
required in the
planning and
construction phase
of high rise
construction for
architectural

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Structural and mep
designs execution
and operation and
maintenance
building
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modelling bim has
already become
almost a necessity
in such structures
building operation

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High Rise Buildings
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Comprised of a
carbon fiber core
and an epoxy-
based high-friction
coating, KONE

UltraRope is
extremely light,
meaning elevator
energy
consumption and
machine room size
in high-rise

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Buildings can be cut significantly.

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is an evolution of the thinking behind Mace's 'Jump Factory', used to deliver Get Living's project at Victory Plaza, East Village. The method combines digital technology with a new offsite manufacturing approach to construct buildings

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faster, safer and to a higher quality.

Mace unveils 'next generation' construction method

Construction technology is still a heavily fragmented, point-solutions-driven market with ample opportunity for

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Integration plays that create either new platforms or attractive component acquisition targets for growing incumbent platforms. This fragmentation is more evident when analyzing construction tech offerings across the

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project life cycle.

Technology For

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(Black & White on

White paper) This

book is directed

mainly toward

Construction

Management,

Construction

Engineering and

Contractors and it

has three

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objectives, the first is to provide a technical guide for students taking courses in civil or structural engineering, the second is to serve as a quick reference for professional engineers to a wide variety of construction

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information, the third is to present a tool to assist Contractors in selecting the optimal construction technique.

Practitioners or Organizations involved in the building industry, such as Owners, Architects, Project

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Managers, General Contractors, and Subcontractors for building projects can use this book as a handy reference. I will be grateful to the readers for their comments and suggestions for further improvement of the book.

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Construction

Technology For

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practices and

processes of

various alternative
methods for the

construction of tall
buildings from

foundation to roof.

The text

progresses through
the stages of site

investigation,

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excavation and earthmoving, foundation construction, basement construction, structural systems for the superstructure, site and material handling, wall and floor construction, external wall and roof construction.

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The planning, safety and environmental considerations, methods, materials, equipment, and construction sequence of the various proprietary systems for each of these respectively stages are discussed. The

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target readers are practitioners and students in building and construction professions including architecture, engineering, project and facilities management, building and construction management, real

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estate, quantity
and land surveying.

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

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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

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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

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Construction, the building technology, the office design, and the Facility Management. Theoretical contributions present the basic principles of select

This book is directed mainly toward

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management,
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construction
High Rise
engineering and
Buildings
concrete
Handbook,
contractors,
presented in a
comprehensive
format to
emphasize the
importance of the
numerous
specialist
professions and

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trades, it has been supplemented extensively with new pictures and drawings illustrating typical construction details, processes and

concepts. Chapter 1. Construction machines Chapter 2. Material lift machines Chapter

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(tiebacks)Chapter

10. Basement
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systemsChapter

11. Shotcrete

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ConcreteChapter

13. Production of
concreteChapter

14. Transporting
and

handlingChapter

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15. Concrete consolidation, finishing & curingChapter 16. Introduction to form workChapter 17. Vertical and horizontal formwork systemsChapter 18. Stripping of form workChapter 19. Joints in concrete

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Structures Chapter
20. Post-tensioning,
mass concrete and
precast panels

Buildings

Handbook
This study
describes current
construction
practices and
processes for tall
buildings from
foundation to roof.
It discusses the
construction

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Sequence of the various proprietary systems and their merits and disadvantages.

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This thesis explores the modernization of older, archaic construction methods used in China, to the advanced development of

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new high-rise structures through the transfer of Western building technologies and techniques.

The Cambridge Handbooks on Construction Robotics discuss progress in robot systems theory and demonstrate their

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and management methodologies that are key to the realization and implementation of the advanced concepts and technologies presented in the subsequent volumes. This book describes the efficient deployment of

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technology. It is
concerned with the
coadaptation of
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products,
processes,
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management, and
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technology, so that

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the implementation of modern technology becomes easier and more efficient. It is also concerned with technology and innovation management methodologies and the generation of life cycle-oriented views related to the use of

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technologies in
construction.

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The technological
revolution has
reached around the
world, with
important
consequences for
business,
government, and
the labor market.
Computer-aided

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design, telecommunications, and other developments are allowing small players to compete with traditional giants in manufacturing and other fields. In this volume, 16 engineering and industrial experts representing eight

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Countries discuss the growth of technological advances and their impact on specific industries and regions of the world. From various perspectives, these distinguished commentators describe the practical aspects of

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technology's reach
into business and
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High Rise

This set of
proceedings is
based on the

International
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The two volumes of proceedings contain 9 invited keynote papers, 72 papers delivered by 11 teams , and 133 contributed papers from over 20 countries around the world. The papers cover a wide spectrum of topics across the three technology

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sub-themes of
structures and
construction,
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technology. The
variety within
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spans a width of
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advances in
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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

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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

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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

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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

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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

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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

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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

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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

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designs, and demonstrates ways in which the technology is continuously advancing to improve the efficiency and stability of tall buildings around the world.

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