ARCH 5422
Advanced Structures and Construction

Library reserve reference list

Basic Reference

The way we build now, Andrew Orton. TH845 O78 1988
Modern Construction Handbook, Andrew Watts TH151 W376 2001
Design and Technology in Architecture, David Guise TA658G85 1991

Theory

Tower and Office, Inaki Abalos & Juan Herreros. NA6232 A3313 2003
Creativity and innovation: the structural engineer's contribution to design, Bill Addis. NA2750 A33 2001
Studies in tectonic culture, Kenneth Frampton. NA642 F73 1995
The architecture of the well-tempered environment, Reyner Banham. TH6021 B28 1984

Facades, Skins, Envelopes

Intelligent Glass Facades, Andrea Campagno. TH1560 C65 2002
Intelligent skins, Michael Wigginton and Jude Harris. TH6053 W54 2002
Double skin facades: integrated planning, Rolf-Dieter Lieb (ed.). TH2238.7 D66613 2001
Cladding of buildings, Alan Brookes. TH2238 B76 1998

Modern Construction Roofs: MCR Andrew Watts TH2401 W38 2005
Modern Construction Facades Andrew Watts TH2235 W37 2005
Skins for Buildings Borich, Keuning, Kruit, et. al. TA403.6 S56 2004

Materials and Construction Systems

Steel construction manual, Schulitz, Sobek, & Habermann (eds.). TA684 S35213 2000
Concrete construction manual, Kind-Barkauskas, et. al. TH1461 C66 2002
Masonry Construction Manual, Gerd Soffker et. al. TH1199 M274 2001
Glass construction manual, Schittich, et. al. TH1560 G58 2007
Roof construction manual, Eberhard Schunck, et. al. TH2401 R66 2003
Construction materials manual, Hegger, Auch-schweik, Fuchs, & Rosenkranz. NA403 C62 2006
Glass structures, Jan Wurm. TH1560 W87 2007
Architecture and construction in steel, A. Blanc, M. McEvoy & R. Plank (eds.) TH1611 A73 1993
Holzleimbau = Laminated timber construction, Christian Muller. TA666 M85 2000
Material architecture, John Fernandez. TA403.6 F47 2006
Materials for architectural design, Victoria Ballard Bell & Patrick Rand. TA403 B45 2006
Modern construction handbook, Andrew Watts. TH151 W376 2001

Fabrication and Construction Practices

Refabricating architecture, S. Kieran & J. Timberlake. TH213.5 K54 2004
Construction Technology for Tall Buildings, Michael Chew Yit Lin. TH845 C47 2001

Environmental Controls, Passive & Sustainable Design

Passive and Low Energy Cooling, Baruch Givoni. TH7687.5 G54 1994
Low-tech light-tech high-tech, Klaus Daniels. NA2542.35 D3614 1998
The technology of ecological building, Klaus Daniels. NA2542.35 D3613 1997

Tall Building Design

High-Rise Manual, Johann Eisele & Ellen Kloft, eds. TH1611 H54 2002
The Vertical Building Structure, Wolfgang Schueller. TH845 S374
High-rise building structures, Wolfgang Schueller. TH845 S37 1986
Multi-purpose high-rise towers and tall buildings, H.R. Viswanath. TH5 M85 1997
Structural systems for tall buildings, Ryszard Kowalczyk. TH1611 S78 1995
Skyhigh: Vertical Architecture, Chris Abel. NA6230 A23 2003
Reinventing the skyscraper, Ken Yeang. NA6230 Y44 2002
The green skyscraper, Ken Yeang. NA6230 Y43
Skyscrapers: an architectural type of modern urbanism. Mario Campi. NA9053 S4 C36 2000
Second Century of the Skyscraper, Lynn Beedle, Ed. TH845 S38 1988
Structural Analysis and Design of Tall Buildings, Bungale S. Taranath. TH845 T33 1988
Steel, concrete, and composite design of tall buildings. Bungale S. Taranath. TH1611 T37 1997

Tall Building Case Studies
Petronas Towers, Cesar Pelli and Michael J. Crobbie. NA6234 M42 K83 2001
Commerzbank Frankfurt: prototype of an ecological high-rise, C. Davies & Ian Lambot. NA6245 G32 F733 1997
Century Tower: Foster Associates build in Japan, C. Davies & Ian Lambot. NA6234 J32 T64 1992
Hongkong Bank: the building of Norman Foster’s masterpiece, Stephanie Williams. NA6245 H85 W54 1989
The construction of the new headquarters for the HSBC, Ian Lambot. NA6245 H85 L35 1985

Foundations
See Chap.18 in: Architecture and construction in steel. Tietz. TH1611 A73 1993
Underground, David Macaulay. TD159.3 M3
Foundation Design, Alan Hodgkinson. TA775 H48
Foundation Design and Construction, Geotechnical Engineering Office, HK Government. TA775 F65 2006 (UL–GovDoc)

Monographs of Architects / Engineers
Thomas Herzog: Architektur + Technologie = architecture + technology, T. Herzog. NA1088 H42 A4 2001
The art of structural engineering: the work of Jorg Schlaich, Alan Holgate. TA658.2 H63 1997
Renzo Piano Building Workshop vols. 1-5, Peter Buchanan. NA1123 P47 A4 v.1-5
Santiago Calatrava, Philip Jodidio. NA1313 C35 J63 2003
Structure Space and Skin: the work of Nicholas Grimshaw, Rowan Moore (ed.) NA997 N53 A4 1993
Louis I. Kahn, Robert McCarter. NA737 K32 M33 2005
The Architecture of Adrian Smith SOM: Toward a sustainable future, Robyn Beaver, Ed. (not in CUHK library)

Building Case Studies
Design center, Linz, T. Herzog. NA1088 H42 A63 1994
Hall 26 for the Deutsche Messe AG Hannover, T. Herzog. NA6880.5 G32 H37 1996
Phoenix Central Library / Bruder D W L architects, Oscar Riera Ojeda, (ed.) Z679.2 U54 P56 1999
Steven Holl/Simmons Hall: MIT undergraduate residenceU, T. Gannon & M. Denison (eds.) T171 M49 S74 2004
Peter Zumthor: Kunsthaus Bregenz, Kunsthaus Bregenz (ed.) NA1353 Z86 P47 1999
Mack Scogin Merrill Elam, Knowlton Hall, Todd Gannon (ed.) NA2300 K66 M33 2005

website references
http://www.skyscraper.org/home_flash.htm