TECHNICAL STUDIES YEAR 3

This reading list has been given to the library by the course tutor. Please note that the library holds as many items as possible from this list, however if any items are not held in the library’s collection, these may be requested via Interlibrary loan on collections.aaschool.ac.uk.

Some items may be shared with other programmes or located in other parts of the library. For location details please consult the online library catalogue.

Term 1
STRUCTURES: MASTERCLASS IN STRUCTURAL BEHAVIOUR
PHIL COOPER, MANJA VAN DE WORP WITH GIANNARLO TORPIANO

General books:
Building Structures, from concepts to design, Millais,M., Spon Press, 2005
Developments in Structural Form, Mainstone, R., Architectural Press, 2001
Tony Hunt’s Second Sketchbook, Architectural Press, 2002
Structure as Architecture, Charleson, A.W., Elsevier, 2005
Lightness, Adriaan Beukers, Ed Van Hinte,, 010 Uitgeverij; (2005)
Structural engineering for architects, Silver/ McLean/Evans, Laurence King (2014)
Introduction to Architectural technology, Pete Silver,Will McLean, Laurence King; (2013)

Model Analysis:
Basic structural behaviour via models, HILSON, Barry; Publ. London by Crosby Lockwood (1972)

Membrane and tensile structures
K. Koch ), K. Habermann
Light Structures - Structures of Light: The Art and Engineering of Tensile Architecture--(2005) by Horst Berger
Tensile Structures (Architectural Design Profile), John Wiley & Sons (1995)
http://www.architen.com/articles/basic-theories-of-tensile-membrane-architecture/
http://www.architen.com/articles/

Shells / Plates and grid shells:
Key reference people: A. Gaudi, Frei Otto, Eduardo Torroja, Rafael Guastavino, Eladio Dieste, Heinz Isler, Candela,
Innovative Surface Structures: Technologies and Application, Taylor & Francis; (2008)
http://designtheory.fiu.edu/readings/otto_working.pdf

Monocogue: Skin & composites
Lightness, Adriaan Beukers , Ed Van Hinte, 010 Uitgeverij; (2005)
Ultra Light – Super Strong: A New Generation of Design Materials, N. Stattmann
Materials for Architectural Design 2, by V. Ballard Bell, P. Rand, L. King; (2014)

Highrise structures
Skyscrapers: Structure and Design, Matthew Wells (Author), Laurence King (2005)
http://www.slideshare.net/nicksocrates/high-rise-building-research-document