2007 Reading Lists:
Emergent Technologies

This reading list has been given to the library by a unit tutor or is compiled from the 2006/7 Course Booklet. We have placed the list on the internet in the form that we received it.
Please note that the library does not necessarily hold all the books included on this reading list and that only a percentage of items may be held on the unit Programme Shelf. For location details please consult the library catalogue.

Essential Reading
Donald Albrect, 'Work of Charles and Ray Eames'
A. Beukers and van Hinte, 'Lightness, The inevitable renaissance of minimum energy structures'
Peter Buchanan, 'Renzo Piano Building Workshop: complete Works'
Burry, Mark; Blurring the lines: an exploration of current techniques, parametric design and rapid prototyping: mediating between analogue and digital skills; in Surface Consciousness, Ed. Mark Taylor, AD - Wiley Academy, London, 2003, pp. 08
Ulrich Conrads, 'Programmes and Manifestoes, on 20th Century Architecture'
Catherine Croft, 'Movement and Myth - The Schröder House and Transformable Living' And Huber-Jan Henket 'The Rietfeld-Schröder House' in AD 'The Transformable House'
Kenneth Frampton, 'Modern Architecture: A Critical History'
Yukio Fukugawa, 'La Maison de Verre'
J.E.Gordon, 'The Science of Structures and Materials'
Susannah Hagan, ch.5 'Materials and Materiality' in 'Taking Shape.-A New Contract between Architecture and Nature',
Martin Hemburg, Genr8- A Design Tool for Surface Generation, MIT
JA Files special issue 1988, ‘Shiguri Ban’
Steven Johnson, ‘Emergence- The connected lives of ants, brains, cities and software’ Scribner 2001
Stuart Kauffman, Investigations, Oxford University Press, 2000
Laurence King, ‘Shiguri Ban’ Princeton 2000
Greg Lynn, ‘The Embryological House - in AD Contemporary Processes in Design
Otto, Frei and Rasch, Bodo; Finding Form; Edition Axel Menges; Deutscher Werkbund Bayern, 1995
Huber Steinegger, ‘Jean Prouve: prefabrication:structures and elements’
Peter Sulzer, ‘Jean Prouve Oevre Complète’ Volume 1 and 2
Terzidis, Kostas; Expressive Form – A Conceptual Approach to Computational Design; Spon Press; London, New York, 2003

JFV. Vincent, ‘Smart by Name, Smart by Nature’ ‘Naturally New Materials’ ‘Actuating Systems in Biology’ ‘Ideas from Skins’ available online at http://www.rdg.ac.uk/biomimetics/ and http://www.bath.ac.uk/Departments/Eng/biomimetics/

Vitra Design Museum Catalogue, ‘Jean Prouve- the Poetics of the Technical Object’

Michael Weinstock, Artefacts and Instruments, Material Forms and Formulations of Thought

Weinstock, Michael and Stathopoulos, Nikolaos; Self-organisation and Material Construction; in Techniques and Technologies in Morphogenetic Design; Hensel, Michael; Menges, Achim and Weinstock, Michael, Eds.; AD Wiley; London, 2006, pp. 34-41

Recommended Reading

Arch+ N0. 159-160 – Formfindung von Biomorph bis Technoform

Manuel Delanda, ‘Inorganic Life’ in Zone 6: Incorporations’ and ‘A Thousand Years of NonLinear History

IL 10 Gridshells, Institute for Lightweight Structures Stuttgart, 1974
IL 18 Forming Bubbles, Institute for Lightweight Structures Stuttgart, 1987
IL 19 Growing and Dividing Pneus, Institute for Lightweight Structures Stuttgart, 1979
IL 13 Multihalle Mannheim, Institute for Lightweight Structures Stuttgart, 1978
IL 34 The Model, Institute for Lightweight Structures Stuttgart, 1987
D.C. Ince (ed), The Collected Works of Alan Turing – vol. 3 Mechanical S.

Herzog, Thomas; Pneumatic Structures – A Handbook of Inflatable Architecture; Oxford University Press; New York, 1976

Kaufmann Origin of Order

Prigogine and I. Stengers, Order our of Chaos Intelligence

René Thom, Structural Stability and Morphogenesis, 1975

Darcy Thompson, On Growth and Form, 1961 edition, Chapter 9

Conrad H. Waddington, Strategies of the Genes, 1957