

CV3313: Building Engineering

[View Online](#)

1.

Jason Alread. Design-Tech: Building Science for Architects. Burlington, MA: Architectural Press; 2007.

2.

Dav Chadderton. Building Services Engineering. Routledge;

3.

Daniels K. Advanced building systems: a technical guide for architects and engineers. Basel: Birkhäuser; 2003.

4.

A. Dye. Environmental Construction Handbook. 2008.

5.

Emmitt, Stephen, Gorse, Christopher A., Barry, R. Barry's advanced construction of buildings. Rev. ed. Oxford: Blackwell; 2006.

6.

Foster, Jack Stroud, Harington, Raymond, Greeno, Roger. Structure and fabric: Part 2. 7th ed. Harlow: Pearson Prentice Hall; 2007.

7.

Harris C, Borer P, Preston G, Foo B, Centre for Alternative Technology (Great Britain). The whole house book: ecological building design & materials. 2nd ed. Machynlleth: Centre for Alternative Technology; 2005.

8.

M. Millais. Building Structures: From Concepts to Design. Spon Press;

9.

Pennycook KA, Building Services Research and Information Association. The illustrated guide to renewable technologies. Bracknell: BSRIA; 2008.

10.

Seward, Derek W. Understanding structures: analysis, materials, design. Basingstoke: Macmillan; 1994.

11.

Peter F., Smith . Architecture in a climate of change: a guide to sustainable design. Elsevier; 2005.

12.

McMullan, R. Environmental science in building. 6th ed. Basingstoke: Palgrave Macmillan; 2007.

13.

Foster JS, Greeno R. Structure and fabric: Part 1. 7th ed. Harlow: Pearson/Prentice Hall; 2007.

14.

Foster, Jack Stroud, Harington, Raymond, Greeno, Roger. Structure and fabric: Part 2. 7th

ed. Harlow: Pearson Prentice Hall; 2007.

15.

David C. Pritchard. Environmental Physics Lighting. London: Longman; 1978.

16.

Burberry, Peter. Environment and services. 8th ed. Longman; 1997.

17.

Roberts, John, Fairhall, Diane. Noise control in the built environment. Gower Technical;

18.

Billington, M. J., Bright, Keith, Waters, J. R. The building regulations: explained and illustrated. 13th ed. Oxford: Blackwell; 2007.

19.

Groák S. The idea of building: thought and action in the design and production of buildings. London: E. & F. N. Spon; 1992.

20.

Ralph Morton. Construction UK. Oxford: Blackwell Science; 2002.

21.

J., Nesbit. A Turbulent Transition Building Contracts 1980 to 2001. 2002.

22.

M. F. Atkinson. Structural foundations manual for low-rise buildings. London: Spon Press; 2004.

23.

G. Barnbrook. House Foundations for the Builder and Building Designer. British Cement Association; 1981.

24.

Charles JA, Building Research Establishment. Geotechnics for building professionals. Watford: BRE; 2005.

25.

Charles JA, Building Research Establishment, Construction Research Communications Ltd, National House-Building Council. Brownfield sites: ground-related risks for buildings. Watford: CRC; 2002.

26.

Curtin WG, Seward NJ, Wiley Online Library EBS. Structural foundation designers' manual [Internet]. 2nd ed. Malden, MA: Blackwell Pub; 2006. Available from: <http://0-dx.doi.org.wam.city.ac.uk/10.1002/9780470775066>

27.

Martin WS. Site Guide to Foundation Construction: A Handbook for Young Professionals. London: CIRIA; 1996.

28.

Harrison HW, Trotman PM, Building Research Establishment. Foundations, basements and external works: performance, diagnosis, maintenance, repair and the avoidance of defects. Garston: BRE; 2002.

29.

Tomlinson, M. J., Boorman, R. Foundation design and construction. 7th ed. Harlow: Prentice Hall; 2001.

30.

Waltham, A. C. Foundations of engineering geology. 2nd ed. London: Spon Press; 2002.

31.

M. F. Atkinson. Structural foundations manual for low-rise buildings. London: Spon Press; 2004.

32.

R. B. Bonshor. Cracking in buildings. London: Construction Research Communications; 1996.

33.

Bullivant, Roger A., Bradbury, H. W. Underpinning: a practical guide. Oxford: Blackwell Science; 1996.

34.

Driscoll RMC, Skinner H, BRE Trust. Subsidence damage to domestic buildings: a guide to good technical practice. Bracknell: IHS BRE Press; 2007.

35.

John Roberts, Nick Jackson, Mark Smith. Tree Roots in the Built Environment (Research for Amenity Trees). Stationery Office;

36.

R. Hunt, D.H. Dyer, R. Driscoll. Foundation Movement and Remedial Underpinning in Low-rise Buildings. IHS BRE;

37.

Webb P. Hoopsafe beams to rectify subsidence damage in low-rise buildings. Structural Survey. 1999;17(2):109–116.

38.

BDA guide to successful brickwork. London: Arnold; 2000.

39.

Campbell JWP, Pryce W. Brick: a world history. London: Thames & Hudson; 2003.

40.

Construction Industry Research and Information Association, Construction Industry Research and Information Association. Wall technology: Vol.A: Performance requirements. CIRIA; 1992.

41.

John Duell. Damp proof course detailing. London: Architectural Press; 1977.

42.

J. R., Harding . Brickwork Durability. 1983.

43.

A.W. Hendry. Masonry Wall Construction. Taylor & Francis; 2000.

44.

Seward NJ, Institution of Structural Engineers (Great Britain). Manual for the design of plain masonry in building structures. 2nd ed. London: Institution of Structural Engineers; 2005.

45.

Gerard Lynch. Brickwork: History, Technology and Practice. London: Donhead; 1994.

46.

Foster, Jack Stroud, Harington, Raymond, Greeno, Roger. Structure and fabric: Part 2. 7th ed. Harlow: Pearson Prentice Hall; 2007.

47.

A.J. Newman. Rain Penetration Through Masonry Walls: Diagnosis and Remedial Measures. Construction Research Communications (CRC);

48.

Andrew Orton. Structural design of masonry. London: Longman; 1992.

49.

G., Pfeifer. Masonry construction manual. Boston:
Birkha
user; 2001.

50.

K. Thomas. Masonry walls. Boston: Butterworth-Heinemann; 1996.

51.

The Vulnerability of UK Property to Windstorm Damage. Association of British Insurers; 2003.

52.

BS 6399-2 Loading for buildings. Code of practice for wind loads. BSI; 1997.

53.

BRE Digest 436 Parts 1 - 3. 1999.

54.

BRE Digest 346 Parts 1 - 8. Building Research Establishment.

55.

BRE, Wind, Floods and Climate Pack. Building Research Establishment; 2007.

56.

Cook, N J., Building Research Establishment. The designer's guide to wind loading of building structures. Butterworths;

57.

Vivian S, Rogers W, Williams N, Great Britain, Construction Industry Research and Information Association. Climate change risks in building: an introduction. London: CIRIA; 2005.

58.

Ground Investigation and Treatment Pack. BRE Press ;

59.

British Geological Survey (BGS) .

60.

BS 5950 Structural use of steelwork in building. Code of practice for fire resistant design. BSI; 2003.

61.

Charles JA, Building Research Establishment. Geotechnics for building professionals. Watford: BRE; 2005.

62.

Charles JA. Building on brownfield sites: identifying the hazards. 2003.

63.

Development and Flood Risk – Guidance for the Construction Industry. CIRIA; 2004.

64.

Cowell R. Beside the Track Side Vibration Isolation. Architects' Journal; 1991;

65.

Planning Policy Guidance 14 1990: Development on Unstable Ground . Department of the Environment; 1990.

66.

Environment Agency.

67.

A., Saunders . London County Council Bomb Damage Maps 1939-45. London Topographical Society ; 2005.

68.

NHBC Standards. National House-Building Council; 1992.

69.

Steffens RJ. Structural vibration and damage: some notes on aspects of the problem and a review of available information. London: H.M.S.O; 1974.

70.

TRL Report 192 Sources of information for site investigations in Britain. Transport Research Laboratory; 1996.

71.

Waltham, A. C. Foundations of engineering geology. 2nd ed. London: Spon Press; 2002.

72.

Arya, Chanakya, EBL DDA. Design of Structural Elements: Concrete, Steelwork, Masonry and Timber Designs to British Standards and Eurocodes, Third Edition [Internet]. 3rd ed. Hoboken: Taylor and Francis; 2009. Available from:
<http://city.ebilib.com/patron/FullRecord.aspx?p=428375>

73.

Bennett D. Exploring concrete architecture: tone, texture, form. Basel: Birkhäuser; 2001.

74.

Sarah Gaventa. Concrete design. London: Mitchell Beazley; 2001.

75.

Domone PLJ, Illston JM, Dawsonera. Construction materials: their nature and behaviour [Internet]. 4th ed. London: Spon; 2010. Available from:
<https://www.dawsonera.com/guard/protected/dawson.jsp?name=https://eresources.city.ac.uk/oala/metadata&dest=http://www.dawsonera.com/depp/reader/protected/external/AbstractView/S9780203927571>

76.

Rabeneck A. Concrete – the Twentieth Century Material. 2009;

77.

Seward D. Understanding structures: analysis, materials, design. Fifth edition. Basingstoke, Hampshire: Palgrave Macmillan; 2014.

78.

TR 62 Self-Compacting Concrete – A Review. Concrete Society; 2005.

79.

R. E. Shaeffer. Reinforced concrete. New York: McGraw-Hill; 1992.

80.

Abel C, Royal Academy of Arts (Great Britain). Sky high: vertical architecture. London: Royal Academy of Arts; 2003.

81.

Arya, Chanakya, EBL DDA. Design of Structural Elements: Concrete, Steelwork, Masonry and Timber Designs to British Standards and Eurocodes, Third Edition [Internet]. 3rd ed. Hoboken: Taylor and Francis; 2009. Available from:
<http://city.ebilib.com/patron/FullRecord.aspx?p=428375>

82.

D., Bennett. The Art of Precast Concrete. Birkhäuser Basel;

83.

D., Bennett. Architectural Insitu Concrete. RIBA ; 2007.

84.

Bennett D. Exploring concrete architecture: tone, texture, form. Basel: Birkhäuser; 2001.

85.

Benton R. Basic structural detailing. Harlow: Longman; 1989.

86.

Boughton, Brian William. Reinforced concrete detailer's manual. 3rd ed. London: Crosby Lockwood Staples; 1979.

87.

Chudley, R. Building superstructure. London: Construction; 1982.

88.

Kim Elliott. Precast Concrete Structures. Butterworth-Heinemann; 2002.

89.

Elliott, K. S., Tovey, A. K., British Cement Association. Precast concrete frame buildings: design guide. Slough: British Cement Association; 1992.

90.

Sarah Gaventa. Concrete design. London: Mitchell Beazley; 2001.

91.

Domone PLJ, Illston JM, Dawsonera. Construction materials: their nature and behaviour [Internet]. 4th ed. London: Spon; 2010. Available from: <https://www.dawsonera.com/guard/protected/dawson.jsp?name=https://eresources.city.ac.uk/oala/metadata&dest=http://www.dawsonera.com/depp/reader/protected/external/AbstractView/S9780203927571>

92.

Kind-Barkauskas F. Concrete construction manual. Basel: Birkhäuser; 2002.

93.

Neville AM. Properties of concrete. Fifth edition. Harlow, England: Pearson; 2011.

94.

Nolan E, Great Britain, Building Research Establishment. Innovation in concrete frame construction 1995-2015. Bracknell: BRE Publications; 2005.

95.

Gjorv OE, Sakai K, International Workshop on 'Concrete Technology for a Sustainable Development in the 21st Century'. Concrete technology for a sustainable development in the 21st century. London: E. & F. N. Spon; 2000.

96.

Peck M. Concrete: design, construction, examples. Basel: Birkhäuser; 2006.

97.

Gray C, Reading Production Engineering Group. In situ concrete frames: a strategy for improving the performance and productivity of the in situ concrete frame industry which will lower the cost of construction for the industry and its clients. Reading: Reading Production Engineering Group; 1995.

98.

Seward D. Understanding structures: analysis, materials, design. Fifth edition. Basingstoke, Hampshire: Palgrave Macmillan; 2014.

99.

British Cement Association. Concrete through the ages: from 7000 BC to AD 2000.

Crowthorn: British Cement Association; 1999.

100.

Bennett D, Concrete Centre (Great Britain). Concrete elegance one. London: Riba Publishing; 2006.

101.

Bennett D, Concrete Centre (Great Britain). Concrete elegance two. London: RIBA Publications; 2006.

102.

Concrete Elegance Three .

103.

Allen AH, British Cement Association. An introduction to prestressed concrete. Slough: British Cement Association; 1983.

104.

BS EN 197-1 Cement. Composition, specifications and conformity criteria for common cements. BSI; 2011.

105.

TR22 Non-structural cracks in concrete -Fourth Edition. 4th ed. The Concrete Society;

106.

Bamforth PB. Early-age thermal crack control in concrete. CIRIA; 2007.

107.

BRE Digest 330 Alkali-silica reaction in concrete. 2004.

108.

BRE - Special Digest 1.

109.

BS 8500-2 Concrete. Complementary British Standard to BS EN 206-1. Specification for constituent materials and concrete. BSI; 2006.

110.

BS EN 13791 Assessment of in-situ compressive strength in structures and pre-cast concrete components. BSI; 2007.

111.

BS EN 1504-1:2005 Definitions.

112.

BS EN 1504-2:2004 Surface protection systems for concrete.

113.

BS EN 1504-3:2005 Structural and non-structural repair.

114.

BS EN 1504-5:2004 Concrete injection.

115.

BS EN 1504-8:2004 Quality control and evaluation of conformity.

116.

BS EN 1504-9:2008 Principles.

117.

BS EN 1504-10:2003 Site application of products and systems and quality control of the works.

118.

Diagnosis of deterioration in concrete structures Technical Report No 54. The Concrete Society; 2000.

119.

J.P. Broomfield. Corrosion of Steel in Concrete. Taylor & Francis;

120.

BRE Digest 444 Corrosion of steel in concrete (in three parts). BRE; 2000.

121.

Technical Report 38 Patch repair of reinforced concrete - subject to reinforcement corrosion. Model specification and method of measurement. The Concrete Society; 1991.

122.

Guide to surface treatments for protection and enhancement of concrete Technical Report No 50. The Concrete Society ; 1997.

123.

Abel C, Royal Academy of Arts (Great Britain). Sky high: vertical architecture. London:

Royal Academy of Arts; 2003.

124.

Blanc, Alan, McEvoy, Michael, Plank, Roger, Steel Construction Institute. Architecture and construction in steel. London: E & F N Spon; 1993.

125.

Davison, Buick, Owens, Graham W., Steel Construction Institute. Steel designers' manual. 6th ed. Oxford: Blackwell Science; 2003.

126.

Eisele J, Kloft E. High-rise manual: typology and design, construction, and technology. Basel: Birkhäuser-Publishers for Architecture; 2003.

127.

Garber, G., Elsevier EBS. Design and construction of concrete floors [Internet]. 2nd ed. Amsterdam: Butterworth-Heinemann; 2006. Available from:
<http://0-www.sciencedirect.com.wam.city.ac.uk/science/book/9780750666565>

128.

Holmes JD. Wind Loading of Structures. 3 ed. Oakville: Apple Academic Press Inc; 2015.

129.

Reichel A. Building with steel: details, principles, examples. Basel: Birkhäuser; 2007.

130.

Steel Construction Manual. Ingram; 2011.

131.

Steel Construction Yearbook . 2008.

132.

Trebilcock P, Lawson RM, Steel Construction Institute. Architectural design in steel [Internet]. London: Spon; 2004. Available from: <https://www.dawsonera.com/guard/protected/dawson.jsp?name=https://eresources.city.ac.uk/oala/metadata&dest=http://www.dawsonera.com/depp/reader/protected/external/AbstractView/S9780203641651>

133.

Wood A, Council on Tall Buildings and Urban Habitat. Best tall buildings 2012: CTBUH international award winning projects. New York: Routledge; 2013.

134.

Abel C, Royal Academy of Arts (Great Britain). Sky high: vertical architecture. London: Royal Academy of Arts; 2003.

135.

Blanc, Alan, McEvoy, Michael, Plank, Roger, Steel Construction Institute. Architecture and construction in steel. London: E & F N Spon; 1993.

136.

Davison, Buick, Owens, Graham W., Steel Construction Institute. Steel designers' manual. 6th ed. Oxford: Blackwell Science; 2003.

137.

Eisele J, Kloft E. High-rise manual: typology and design, construction, and technology. Basel: Birkhäuser-Publishers for Architecture; 2003.

138.

Garber, G., Elsevier EBS. Design and construction of concrete floors [Internet]. 2nd ed. Amsterdam: Butterworth-Heinemann; 2006. Available from:
<http://0-www.sciencedirect.com.wam.city.ac.uk/science/book/9780750666565>

139.

Holmes JD. Wind Loading of Structures. 3 ed. Oakville: Apple Academic Press Inc; 2015.

140.

Reichel A. Building with steel: details, principles, examples. Basel: Birkhäuser; 2007.

141.

Steel Construction Manual. Ingram; 2011.

142.

Davison, Buick, Owens, Graham W., Steel Construction Institute. Steel designers' manual. 6th ed. Oxford: Blackwell Science; 2003.

143.

Steel Construction Yearbook . 2008.

144.

Tall Buildings: A Strategic Design Guide. London: RIBA; 2005.

145.

Trebilcock P, Lawson RM, Steel Construction Institute. Architectural design in steel [Internet]. London: Spon; 2004. Available from:
<https://www.dawsonera.com/guard/protected/dawson.jsp?name=https://eresources.city.ac.uk/oala/metadata&dest=http://www.dawsonera.com/depp/reader/protected/external/AbstractView/S9780203641651>

146.

Wood A, Council on Tall Buildings and Urban Habitat. Best tall buildings 2012: CTBUH international award winning projects. New York: Routledge; 2013.

147.

Abel C, Royal Academy of Arts (Great Britain). Sky high: vertical architecture. London: Royal Academy of Arts; 2003.

148.

Blanc, Alan, McEvoy, Michael, Plank, Roger, Steel Construction Institute. Architecture and construction in steel. London: E & F N Spon; 1993.

149.

Davison, Buick, Owens, Graham W., Steel Construction Institute. Steel designers' manual. 6th ed. Oxford: Blackwell Science; 2003.

150.

Eisele J, Kloft E. High-rise manual: typology and design, construction, and technology. Basel: Birkhäuser-Publishers for Architecture; 2003.

151.

Garber, G., Elsevier EBS. Design and construction of concrete floors [Internet]. 2nd ed. Amsterdam: Butterworth-Heinemann; 2006. Available from: <http://0-www.sciencedirect.com.wam.city.ac.uk/science/book/9780750666565>

152.

Holmes JD. Wind Loading of Structures. 3 ed. Oakville: Apple Academic Press Inc; 2015.

153.

Reichel A. Building with steel: details, principles, examples. Basel: Birkhäuser; 2007.

154.

Steel Construction Manual. Ingram; 2011.

155.

Davison, Buick, Owens, Graham W., Steel Construction Institute. Steel designers' manual. 6th ed. Oxford: Blackwell Science; 2003.

156.

Steel Construction Yearbook . 2008.

157.

Tall Buildings: A Strategic Design Guide. London: RIBA; 2005.

158.

Trebilcock P, Lawson RM, Steel Construction Institute. Architectural design in steel [Internet]. London: Spon; 2004. Available from: <https://www.dawsonera.com/guard/protected/dawson.jsp?name=https://eresources.city.ac.uk/oala/metadata&dest=http://www.dawsonera.com/depp/reader/protected/external/AbstractView/S9780203641651>

159.

Wood A, Council on Tall Buildings and Urban Habitat. Best tall buildings 2012: CTBUH international award winning projects. New York: Routledge; 2013.

160.

Bangash, M. Y. H., Institution of Civil Engineers. Structural detailing in steel. London: Thomas Telford Ltd; 2009.

161.

Blanc, Alan, McEvoy, Michael, Plank, Roger, Steel Construction Institute. Architecture and construction in steel. London: E & F N Spon; 1993.

162.

Hart, F, Henn, Walter, Sontag, H., Godfrey, G. Bernard. Multi-storey buildings in steel. 2nd ed. New York: Nichols Pub. Co; 1985.

163.

Davison, Buick, Owens, Graham W., Steel Construction Institute. Steel designers' manual. 6th ed. Oxford: Blackwell Science; 2003.

164.

Steel Construction Yearbook . 2008.

165.

Blanc, Alan, McEvoy, Michael, Plank, Roger, Steel Construction Institute. Architecture and construction in steel. London: E & F N Spon; 1993.

166.

BS 5950 Structural use of steelwork in building. Code of practice for fire resistant design. BSI; 2003.

167.

Lawson RM, Mullett DL, Rackham JW. Design of asymmetric Slimflor® beams using deep composite decking. Ascot: Steel Construction Institute; 1997.

168.

Mullett, D. L., Lawson, R. M., Steel Construction Institute. Slim floor construction using deep decking: interim design guidance. Steel Construction Institute; 1992.

169.

Couchman GH, Rackham DL. Composite Slabs and Beams Using Steel Decking: Best Practice for Design and Construction. 2000.

170.

Newman, G. M. The fire resistance of composite floors with steel decking. Ascot: The Steel Construction Institute; 1989.

171.

Abel C, Royal Academy of Arts (Great Britain). Sky high: vertical architecture. London: Royal Academy of Arts; 2003.

172.

Blanc, Alan, McEvoy, Michael, Plank, Roger, Steel Construction Institute. Architecture and construction in steel. London: E & F N Spon; 1993.

173.

Davison, Buick, Owens, Graham W., Steel Construction Institute. Steel designers' manual. 6th ed. Oxford: Blackwell Science; 2003.

174.

Eisele J, Kloft E. High-rise manual: typology and design, construction, and technology. Basel: Birkhäuser-Publishers for Architecture; 2003.

175.

Garber, G., Elsevier EBS. Design and construction of concrete floors [Internet]. 2nd ed. Amsterdam: Butterworth-Heinemann; 2006. Available from: <http://0-www.sciencedirect.com.wam.city.ac.uk/science/book/9780750666565>

176.

Holmes JD. Wind Loading of Structures. 3 ed. Oakville: Apple Academic Press Inc; 2015.

177.

Reichel A. Building with steel: details, principles, examples. Basel: Birkhäuser; 2007.

178.

Steel Construction Manual. Ingram; 2011.

179.

Steel Construction Yearbook . 2008.

180.

Tall Buildings: A Strategic Design Guide. London: RIBA; 2005.

181.

Trebilcock P, Lawson RM, Steel Construction Institute. Architectural design in steel [Internet]. London: Spon; 2004. Available from: <https://www.dawsonera.com/guard/protected/dawson.jsp?name=https://eresources.city.ac.uk/oala/metadata&dest=http://www.dawsonera.com/depp/reader/protected/external/AbstractView/S9780203641651>

182.

Insulating Concrete Formwork Association - UK.

183.

RenewableUK - UK Wind Speed Database.