

CV3313: Building Engineering

[View Online](#)

A. Dye. Environmental Construction Handbook. 2008.

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

Abel, Chris and Royal Academy of Arts (Great Britain). Sky High: Vertical Architecture. Royal Academy of Arts, 2003.

———. Sky High: Vertical Architecture. Royal Academy of Arts, 2003.

———. Sky High: Vertical Architecture. Royal Academy of Arts, 2003.

———. Sky High: Vertical Architecture. Royal Academy of Arts, 2003.

———. Sky High: Vertical Architecture. Royal Academy of Arts, 2003.

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

Allen, A. H. and British Cement Association. An Introduction to Prestressed Concrete. British Cement Association, 1983.

Andrew Orton. Structural Design of Masonry. Longman, 1992.

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

———. Design of Structural Elements: Concrete, Steelwork, Masonry and Timber Designs to British Standards and Eurocodes, Third Edition. 3rd ed, Taylor and Francis, 2009, <http://city.ebilib.com/patron/FullRecord.aspx?p=428375>. Electronic resource.

A.W. Hendry. Masonry Wall Construction. Taylor & Francis, 2000. Paperback.

Bamforth, P. B. Early-Age Thermal Crack Control in Concrete. CIRIA, 2007.

Bangash, M. Y. H. and Institution of Civil Engineers. Structural Detailing in Steel. Thomas Telford Ltd, 2009. Electronic resource.

BDA Guide to Successful Brickwork. Arnold, 2000.

Bennett, David. Exploring Concrete Architecture: Tone, Texture, Form. Birkhäuser, 2001.

———. Exploring Concrete Architecture: Tone, Texture, Form. Birkhäuser, 2001.

Bennett, David and Concrete Centre (Great Britain). Concrete Elegance One. Riba Publishing, 2006.

———. Concrete Elegance Two. RIBA Publications, 2006.

Benton, R. Basic Structural Detailing. Longman, 1989.

Billington, M. J., et al. The Building Regulations: Explained and Illustrated. 13th ed, Blackwell, 2007.

Blanc, Alan, et al. Architecture and Construction in Steel. E & F N Spon, 1993.

———. Architecture and Construction in Steel. E & F N Spon, 1993.

———. Architecture and Construction in Steel. E & F N Spon, 1993.

———. Architecture and Construction in Steel. E & F N Spon, 1993.

———. Architecture and Construction in Steel. E & F N Spon, 1993.

———. Architecture and Construction in Steel. E & F N Spon, 1993.

Boughton, Brian William. Reinforced Concrete Detailer's Manual. 3rd ed, Crosby Lockwood Staples, 1979.

BRE - Special Digest 1.

BRE Digest 330 Alkali-Silica Reaction in Concrete. 2004.

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

BRE Digest 436 Parts 1 - 3. 1999.

BRE Digest 444 Corrosion of Steel in Concrete (in Three Parts). BRE, 2000.

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

British Cement Association. Concrete through the Ages: From 7000 BC to AD 2000. British Cement Association, 1999.

British Geological Survey (BGS) .

BS 5950 Structural Use of Steelwork in Building. Code of Practice for Fire Resistant Design. BSI, 2003.

BS 5950 Structural Use of Steelwork in Building. Code of Practice for Fire Resistant Design. BSI, 2003.

BS 6399-2 Loading for Buildings. Code of Practice for Wind Loads. BSI, 1997.

BS 8500-2 Concrete. Complementary British Standard to BS EN 206-1. Specification for Constituent Materials and Concrete. BSI, 2006.

BS EN 197-1 Cement. Composition, Specifications and Conformity Criteria for Common Cements. BSI, 2011.

BS EN 1504-1:2005 Definitions.

BS EN 1504-2:2004 Surface Protection Systems for Concrete.

BS EN 1504-3:2005 Structural and Non-Structural Repair.

BS EN 1504-5:2004 Concrete Injection.

BS EN 1504-8:2004 Quality Control and Evaluation of Conformity.

BS EN 1504-9:2008 Principles.

BS EN 1504-10:2003 Site Application of Products and Systems and Quality Control of the Works.

BS EN 13791 Assessment of In-Situ Compressive Strength in Structures and Pre-Cast Concrete Components. BSI, 2007.

Bullivant, Roger A. and Bradbury, H. W. Underpinning: A Practical Guide. Blackwell Science, 1996.

Burberry, Peter. Environment and Services. 8th ed, Mitchell's building series, Longman, 1997.

Campbell, James W. P., and Will Pryce. Brick: A World History. Thames & Hudson, 2003.

Charles, J. A. Building on Brownfield Sites: Identifying the Hazards. 2003.

Charles, J. A. and Building Research Establishment. Geotechnics for Building Professionals. BRE, 2005.

———. Geotechnics for Building Professionals. BRE, 2005.

Charles, James A., et al. Brownfield Sites: Ground-Related Risks for Buildings. CRC, 2002.

Chudley, R. Building Superstructure. Construction, 1982.

Concrete Elegance Three .

Construction Industry Research and Information Association and Construction Industry Research and Information Association. Wall Technology: Vol.A: Performance Requirements. CIRIA, 1992.

Cook, N J. and Building Research Establishment. The Designer's Guide to Wind Loading of

Building Structures. Butterworths.

Couchman, G. H., and D. L. Rackham. Composite Slabs and Beams Using Steel Decking: Best Practice for Design and Construction. 2000.

Cowell, R. Beside the Track Side Vibration Isolation. 1991.

Curtin, W. G., et al. Structural Foundation Designers' Manual. 2nd ed, Blackwell Pub, 2006, <http://0-dx.doi.org.wam.city.ac.uk/10.1002/9780470775066>. Electronic resource.

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

———. The Art of Precast Concrete. Birkhäuser Basel. Hardcover.

Daniels, Klaus. Advanced Building Systems: A Technical Guide for Architects and Engineers . Birkhäuser, 2003.

Dav Chadderton. Building Services Engineering. Routledge.

David C. Pritchard. Environmental Physics Lighting. Longman, 1978.

Davison, Buick, et al. Steel Designers' Manual. 6th ed, Blackwell Science, 2003.

———. Steel Designers' Manual. 6th ed, Blackwell Science, 2003.

———. Steel Designers' Manual. 6th ed, Blackwell Science, 2003.

———. Steel Designers' Manual. 6th ed, Blackwell Science, 2003.

———. Steel Designers' Manual. 6th ed, Blackwell Science, 2003.

———. Steel Designers' Manual. 6th ed, Blackwell Science, 2003.

———. Steel Designers' Manual. 6th ed, Blackwell Science, 2003.

Development and Flood Risk – Guidance for the Construction Industry. Vol. C624, CIRIA, 2004.

Diagnosis of Deterioration in Concrete Structures Technical Report No 54. The Concrete Society, 2000.

Domone, P. L. J., et al. Construction Materials: Their Nature and Behaviour. 4th ed, Spon, 2010, <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>. Electronic resource.

———. Construction Materials: Their Nature and Behaviour. 4th ed, Spon, 2010, <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>. Electronic resource.

Driscoll, R. M. C., et al. *Subsidence Damage to Domestic Buildings: A Guide to Good Technical Practice*. IHS BRE Press, 2007. Multimedia.

Eisele, Johann, and Ellen Kloft. *High-Rise Manual: Typology and Design, Construction, and Technology*. Birkhäuser-Publishers for Architecture, 2003.

———. *High-Rise Manual: Typology and Design, Construction, and Technology*. Birkhäuser-Publishers for Architecture, 2003.

———. *High-Rise Manual: Typology and Design, Construction, and Technology*. Birkhäuser-Publishers for Architecture, 2003.

———. *High-Rise Manual: Typology and Design, Construction, and Technology*. Birkhäuser-Publishers for Architecture, 2003.

Elliott, K. S., et al. *Precast Concrete Frame Buildings: Design Guide*. British Cement Association, 1992.

Emmitt, Stephen, et al. *Barry's Advanced Construction of Buildings*. Rev. ed, Blackwell, 2006.

Environment Agency.

Foster, Jack Stroud, et al. *Structure and Fabric: Part 2*. 7th ed, Mitchell's building series, Pearson Prentice Hall, 2007.

———. *Structure and Fabric: Part 2*. 7th ed, Mitchell's building series, Pearson Prentice Hall, 2007.

———. *Structure and Fabric: Part 2*. 7th ed, Mitchell's building series, Pearson Prentice Hall, 2007.

Foster, Jack Stroud, and Roger Greeno. *Structure and Fabric: Part 1*. 7th ed, Mitchell's building series, Pearson/Prentice Hall, 2007.

G. Barnbrook. *House Foundations for the Builder and Building Designer*. British Cement Association, 1981. Paperback.

Garber, G. and Elsevier EBS. *Design and Construction of Concrete Floors*. 2nd ed, Butterworth-Heinemann, 2006,
<http://0-www.sciencedirect.com.wam.city.ac.uk/science/book/9780750666565>. Electronic resource.

———. *Design and Construction of Concrete Floors*. 2nd ed, Butterworth-Heinemann, 2006,
<http://0-www.sciencedirect.com.wam.city.ac.uk/science/book/9780750666565>. Electronic resource.

———. *Design and Construction of Concrete Floors*. 2nd ed, Butterworth-Heinemann, 2006,
<http://0-www.sciencedirect.com.wam.city.ac.uk/science/book/9780750666565>. Electronic resource.

———. *Design and Construction of Concrete Floors*. 2nd ed, Butterworth-Heinemann, 2006,

<http://0-www.sciencedirect.com.wam.city.ac.uk/science/book/9780750666565>. Electronic resource.

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

Gjorv, Odd E., et al. Concrete Technology for a Sustainable Development in the 21st Century. E. & F. N. Spon, 2000.

G., Pfeifer. Masonry Construction Manual.
Birkha

user, 2001.

Gray, C. and 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 Production Engineering Group, 1995.

Groák, Steven. The Idea of Building: Thought and Action in the Design and Production of Buildings. E. & F. N. Spon, 1992.

Ground Investigation and Treatment Pack. BRE Press .

Guide to Surface Treatments for Protection and Enhancement of Concrete Technical Report No 50. The Concrete Society , 1997.

Harris, Cindy, et al. The Whole House Book: Ecological Building Design & Materials. 2nd ed, Centre for Alternative Technology, 2005.

Harrison, H. W., et al. Foundations, Basements and External Works: Performance, Diagnosis, Maintenance, Repair and the Avoidance of Defects. BRE, 2002.

Hart, F, et al. Multi-Storey Buildings in Steel. 2nd ed, Nichols Pub. Co, 1985.

Holmes, John D. Wind Loading of Structures. 3 ed, Apple Academic Press Inc, 2015.

———. Wind Loading of Structures. 3 ed, Apple Academic Press Inc, 2015.

———. Wind Loading of Structures. 3 ed, Apple Academic Press Inc, 2015.

———. Wind Loading of Structures. 3 ed, Apple Academic Press Inc, 2015.

Insulating Concrete Formwork Association - UK.

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

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

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

John Duell. Damp Proof Course Detailing. Architectural Press, 1977.

John Roberts, et al. Tree Roots in the Built Environment (Research for Amenity Trees). Stationery Office. Paperback.

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

K. Thomas. Masonry Walls. Butterworth-Heinemann, 1996.

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

Kind-Barkauskas, Friedbert. Concrete Construction Manual. Birkhäuser, 2002.

Lawson, R. M., et al. Design of Asymmetric Slimflor® Beams Using Deep Composite Decking. Steel Construction Institute, 1997.

M. F. Atkinson. Structural Foundations Manual for Low-Rise Buildings. Spon Press, 2004.

———. Structural Foundations Manual for Low-Rise Buildings. Spon Press, 2004.

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

Martin, W. S. Site Guide to Foundation Construction: A Handbook for Young Professionals. CIRIA, 1996.

McMullan, R. Environmental Science in Building. 6th ed, Palgrave Macmillan, 2007.

Mullett, D. L., et al. Slim Floor Construction Using Deep Decking: Interim Design Guidance. Steel Construction Institute, 1992.

Neville, Adam M. Properties of Concrete. Fifth edition, Pearson, 2011.

Newman, G. M. The Fire Resistance of Composite Floors with Steel Decking. The Steel Construction Institute, 1989.

NHBC Standards. National House-Building Council, 1992. Paperback.

Nolan, Eanna, et al. Innovation in Concrete Frame Construction 1995-2015. BRE Publications, 2005.

Peck, Martin. Concrete: Design, Construction, Examples. Birkhäuser, 2006.

Pennycook, K. A. and Building Services Research and Information Association. The Illustrated Guide to Renewable Technologies. BSRIA, 2008.

Peter F., Smith . Architecture in a Climate of Change: A Guide to Sustainable Design. Elsevier, 2005.

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

R. B. Bonshor. Cracking in Buildings. Construction Research Communications, 1996.

R. E. Shaeffer. Reinforced Concrete. McGraw-Hill, 1992.

R. Hunt, et al. Foundation Movement and Remedial Underpinning in Low-Rise Buildings. IHS BRE. Paperback.

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

Ralph Morton. Construction UK. Blackwell Science, 2002.

Reichel, Alexander. Building with Steel: Details, Principles, Examples. Birkhäuser, 2007.

———. Building with Steel: Details, Principles, Examples. Birkhäuser, 2007.

———. Building with Steel: Details, Principles, Examples. Birkhäuser, 2007.

———. Building with Steel: Details, Principles, Examples. Birkhäuser, 2007.

RenewableUK - UK Wind Speed Database.

Roberts, John and Fairhall, Diane. Noise Control in the Built Environment. Gower Technical.

Sarah Gaventa. Concrete Design. Mitchell Beazley, 2001.

———. Concrete Design. Mitchell Beazley, 2001.

Seward, Derek. Understanding Structures: Analysis, Materials, Design. Fifth edition, Palgrave Macmillan, 2014.

———. Understanding Structures: Analysis, Materials, Design. Fifth edition, Palgrave Macmillan, 2014.

Seward, Derek W. Understanding Structures: Analysis, Materials, Design. Macmillan, 1994.

Seward, N. J. and Institution of Structural Engineers (Great Britain). Manual for the Design of Plain Masonry in Building Structures. 2nd ed, Institution of Structural Engineers, 2005.

Steel Construction Manual. Ingram, 2011.

Steel Construction Manual. Ingram, 2011.

Steel Construction Manual. Ingram, 2011.

Steel Construction Manual. Ingram, 2011.

Steel Construction Yearbook . 2008.

Steel Construction Yearbook . 2008.

Steel Construction Yearbook . 2008.

Steel Construction Yearbook . 2008.

Steel Construction Yearbook . 2008.

Steffens, Raymond John. Structural Vibration and Damage: Some Notes on Aspects of the Problem and a Review of Available Information. H.M.S.O, 1974.

Tall Buildings: A Strategic Design Guide. RIBA, 2005.

Tall Buildings: A Strategic Design Guide. RIBA, 2005.

Tall Buildings: A Strategic Design Guide. RIBA, 2005.

Technical Report 38 Patch Repair of Reinforced Concrete - Subject to Reinforcement Corrosion. Model Specification and Method of Measurement. The Concrete Society, 1991.
The Vulnerability of UK Property to Windstorm Damage. Association of British Insurers, 2003.

Tomlinson, M. J. and Boorman, R. Foundation Design and Construction. 7th ed, Prentice Hall, 2001.

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

TR22 Non-Structural Cracks in Concrete -Fourth Edition. 4th edn, The Concrete Society.

Trebilcock, Peter, et al. Architectural Design in Steel. Spon, 2004,
<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>. Electronic resource.

———. Architectural Design in Steel. Spon, 2004,
<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>. Electronic resource.

———. Architectural Design in Steel. Spon, 2004,
<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>. Electronic resource.

———. Architectural Design in Steel. Spon, 2004,
<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>. Electronic resource.

TRL Report 192 Sources of Information for Site Investigations in Britain. Transport Research Laboratory, 1996.

Vivian, S., et al. Climate Change Risks in Building: An Introduction. CIRIA, 2005.

Waltham, A. C. Foundations of Engineering Geology. 2nd ed, Spon Press, 2002.

———. Foundations of Engineering Geology. 2nd ed, Spon Press, 2002.

Webb, Philip. 'Hoopsafe Beams to Rectify Subsidence Damage in Low-Rise Buildings'. Structural Survey, vol. 17, no. 2, 1999, pp. 109–16, <https://doi.org/10.1108/02630809910273785>.

Wood, Antony and Council on Tall Buildings and Urban Habitat. Best Tall Buildings 2012: CTBUH International Award Winning Projects. Routledge, 2013.

———. Best Tall Buildings 2012: CTBUH International Award Winning Projects. Routledge, 2013.

———. Best Tall Buildings 2012: CTBUH International Award Winning Projects. Routledge, 2013.