

Technical Article

Visual guide to the
Eurocodes supporting
documentation

January 2012

Written by NBS for The Construction Information Service

The image below illustrates the format of this document, highlighting the Eurocodes and their related publications, which are currently available within the Construction Information Service.

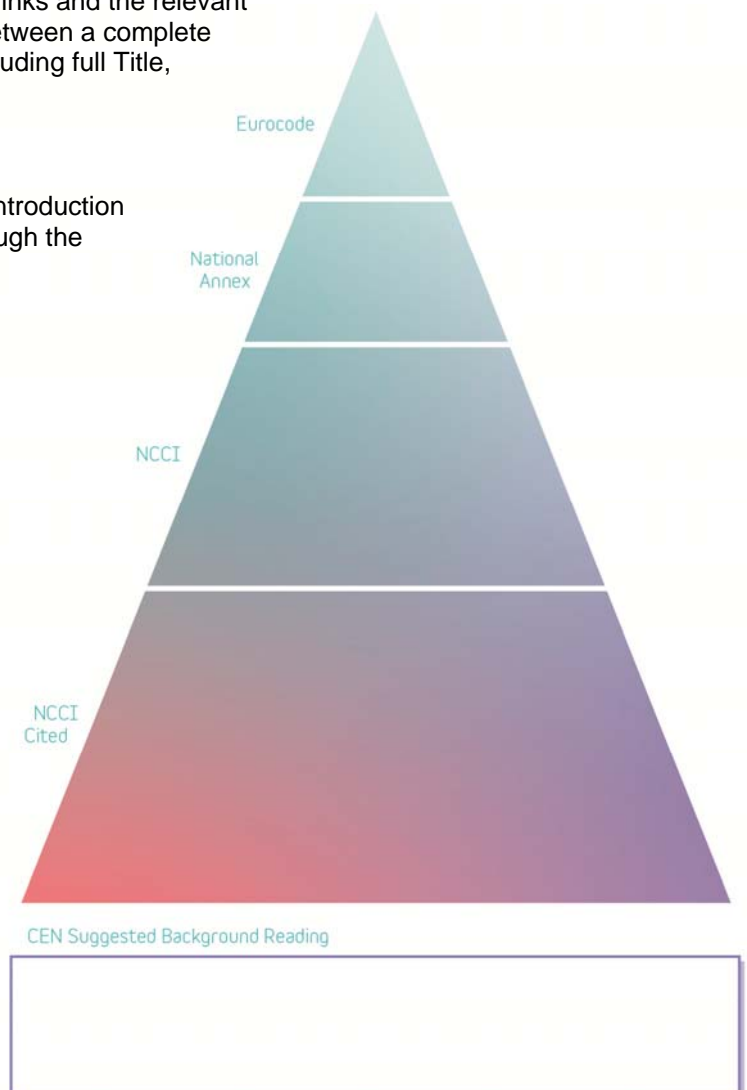
Starting with the Eurocode at the top of the pyramid, each level of documentation is shown as you progress down the page to the non-essential 'background reading' box at the bottom of the page. These levels of documentation are:

- Eurocode
- National Annex
- Non Contradictory Complementary Information (NCCI)
- NCCI Cited – not part of the Eurocodes; however, they give important information and best practice guidance for the correct application of the NCCI documents. This area also shows 'Execution Standards' and offers 'Suggested reading' from the Construction Information Service' editorial team, where appropriate, of newly published documents directly related to the Eurocodes.
- CEN suggested background reading (white box) – not related directly to the Eurocodes but suggested by CEN, as these documents give best practice guidance on the application of the relevant Eurocode.

The relevant Eurocode parts and their National Annexes are available by following the 'in image' links to a complete reference list (the list contains citations for all of the documents related to the Eurocodes – not just those that are within the Service. These image links and the relevant titles within the document can be used to tab between a complete reference list for the documents mentioned, including full Title, Series name and number, Publisher and Date of publication, and the visual guide pages.

As well as this visual guide, there are several 'Introduction to the Eurocodes' guides already available through the Service. These are:

- [Eurocodes: the basics](#)
- [ENs and National Standards](#)
- [Background documents](#).



Standards organisations and CEN have stated that while some of these standards will remain current they will not be updated in future. They are made available to the Service through being cited in the Building Regulations Technical Documents. The links below lead to the summary page of each document; notes are attached where relevant:

[IS 193:1986](#) Timber Trussed Rafters for Roofs

[IS 325-1:1986](#) Code of practice for use of masonry. Structural use of unreinforced masonry

[IS 325-2:1995](#) Code of practice for use of masonry. Masonry construction

[IS 326-1:1995](#) Concrete. Code of practice for the structural use of concrete

[IS 326-2.1:1995](#) Concrete. Guide to specifying concrete

[IS 326-2.2:1995](#) Concrete. Methods for specifying concrete mixes

[IS 326-2.3:1995](#) Concrete. Specification for the procedures to be used in producing and transporting concrete

[IS 326-2.4:1995](#) Concrete. Specification for the procedures to be used in sampling, testing and assessing compliance of concrete

[IS 444:1998](#) Use of structural timber in buildings

[BS 648:1964](#) - Obsolescent, but remains current

[BS 2853:1957](#) - Superseded by BS EN 1993-6:2007, but remains current

[BS 8002:1994](#)

[BS 8004:1986](#)

[BS 8007:1987](#) - Withdrawn, but remains within the Service

[BS 8081:1989](#) - Partially replaced, but remains current

BS5268 (multiple parts)

[BS 5268-2:2002](#)

[BS 5268-3:2006](#)

[BS 5268-4-1:1990](#)

[BS 5268-4-2:1990](#)

[BS 5268-6-1:1996](#)

BS 6399 (multiple parts)

[BS 6399-1:1996](#)

[BS 6399-2:1997](#)

[BS 6399-3:1988](#)

BS 8118 (multiple parts)

[BS 8118-1:1991](#)

[BS 8118-2:1991](#)

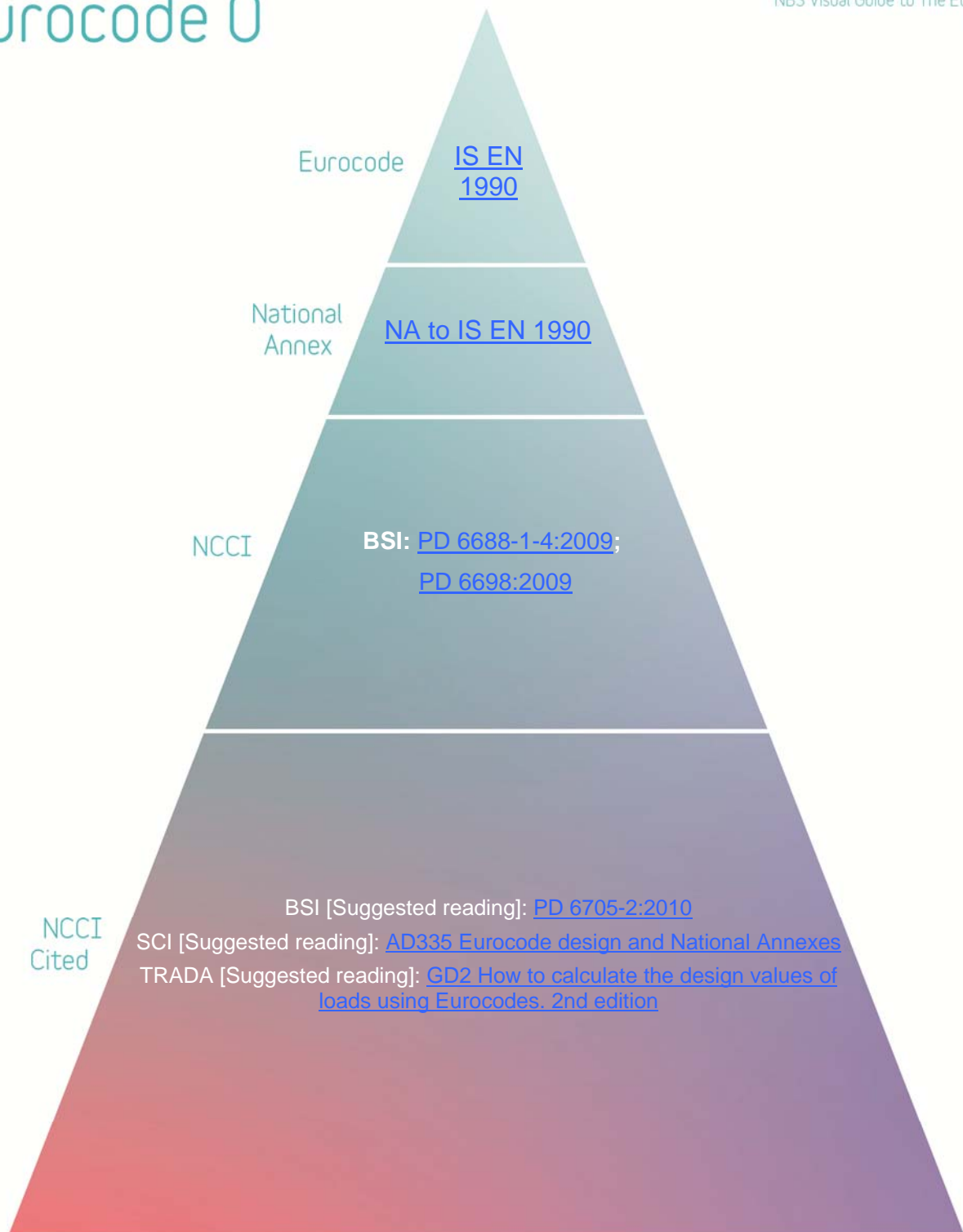
Irish Standards partly covered by Eurocodes will be reviewed to delete conflicting information and re-published to reflect the changed scope. The re-published documents may be used as non-contradictory complementary information. These documents are likely to be:

[IS 193:1986](#) Timber Trussed Rafters for Roofs

[IS 325-1:1986](#) Code of practice for use of masonry. Structural use of unreinforced masonry

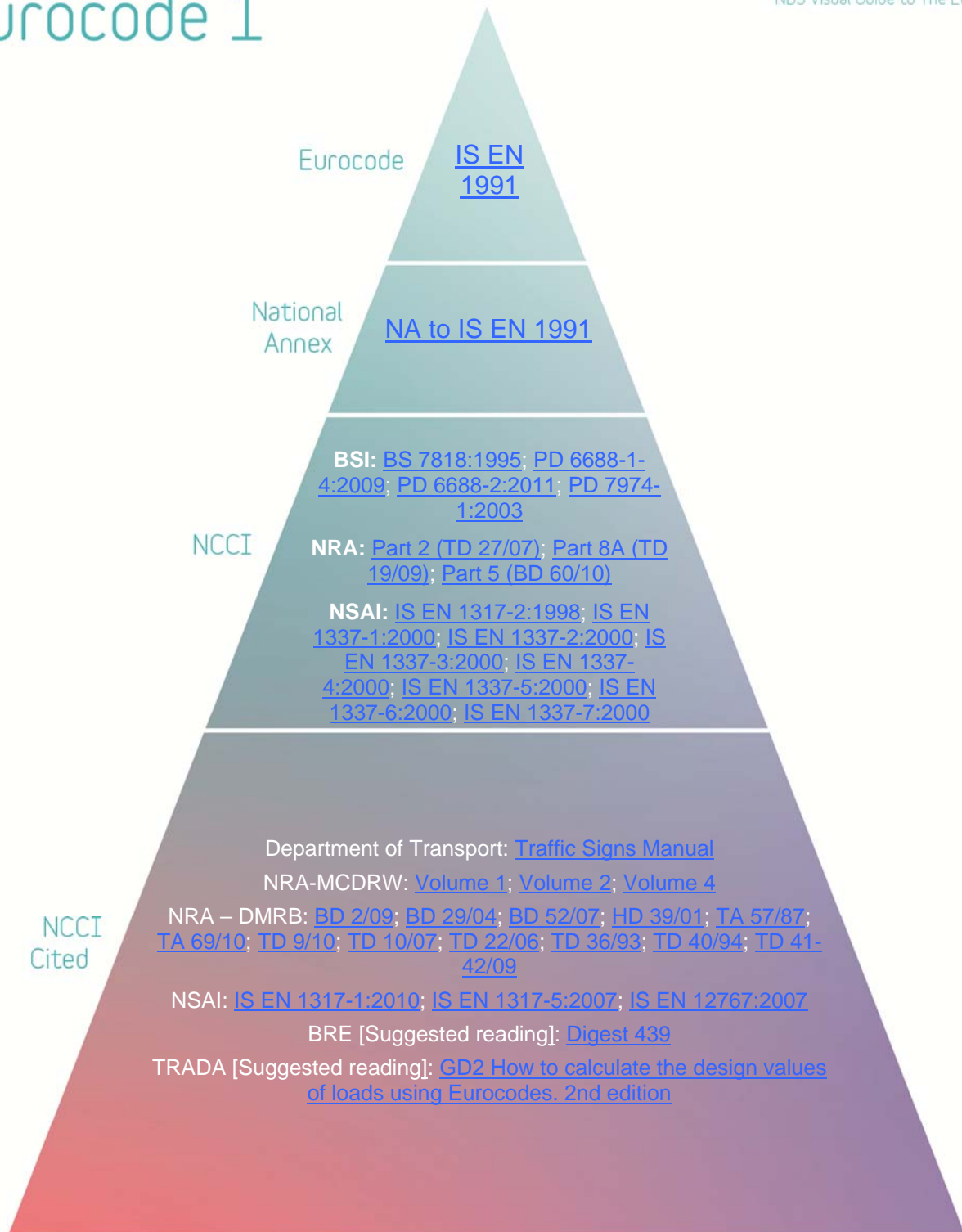
[IS 325-2:1995](#) Code of practice for use of masonry. Masonry construction

[IS 444:1998](#) Use of structural timber in buildings



CEN Suggested Background Reading

Purkiss, J. A. [*Fire safety engineering - Design of structures*](#). (2nd edition). Elsevier Press, 2007
[*Guide to the use of EN 1990 Basis of Structural Design*](#). UK DCLG, 2006.

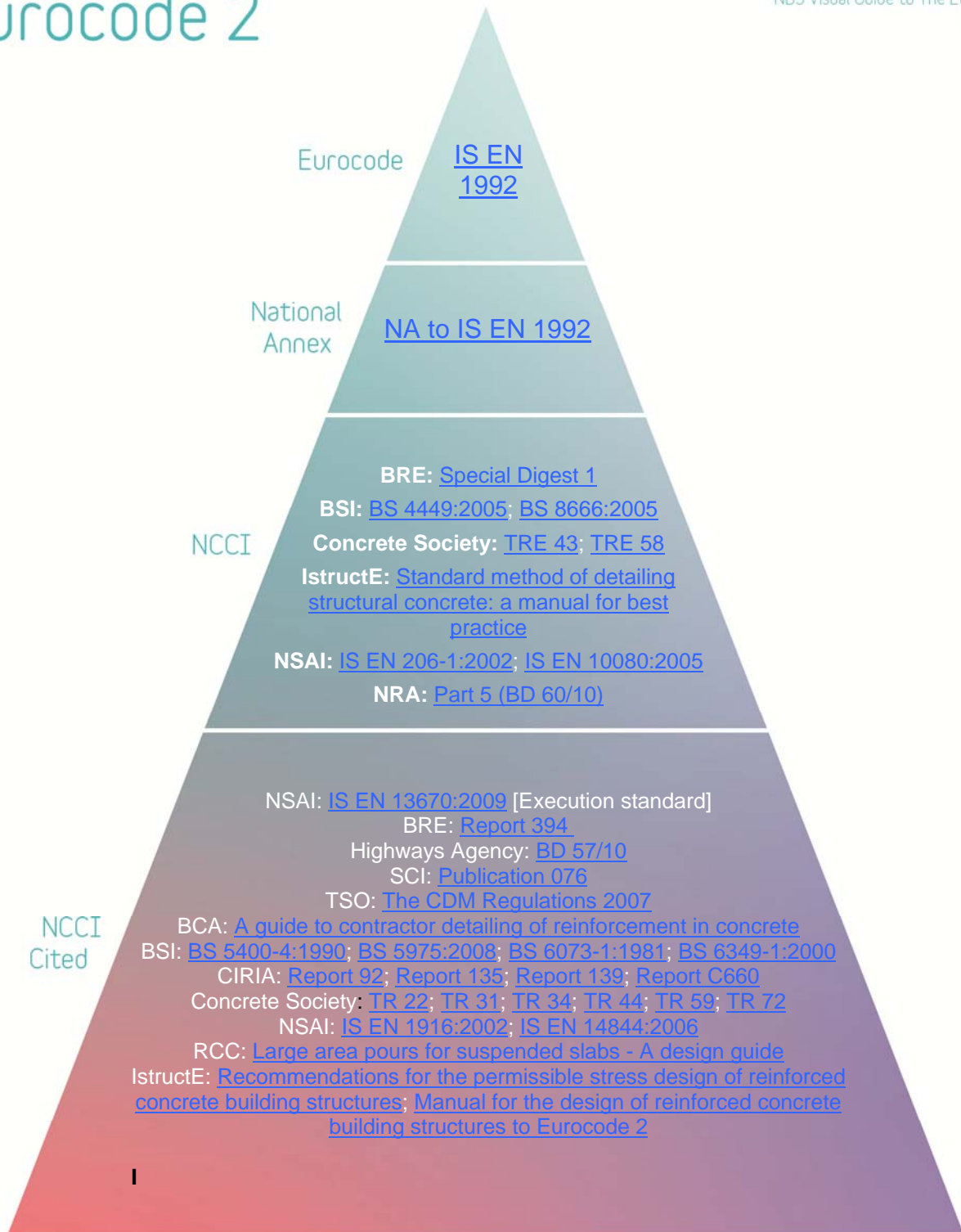


CEN Suggested Background Reading

Purkiss, J. A. [Fire safety engineering - Design of structures](#). (2nd edition). Elsevier Press, 2007

[Guide to the use of EN 1991-1-4 Wind Actions](#). UK DCLG, 2006.

[Guide to the use of EN 1991-1-7 Accidental Actions](#). UK DCLG, 2006.



CEN Suggested Background Reading

[Companion Document EN 1992-1-1: Eurocode 2: Design of Concrete Structures - Part 1: General rules and rules for buildings](#). DCLG, 2007.

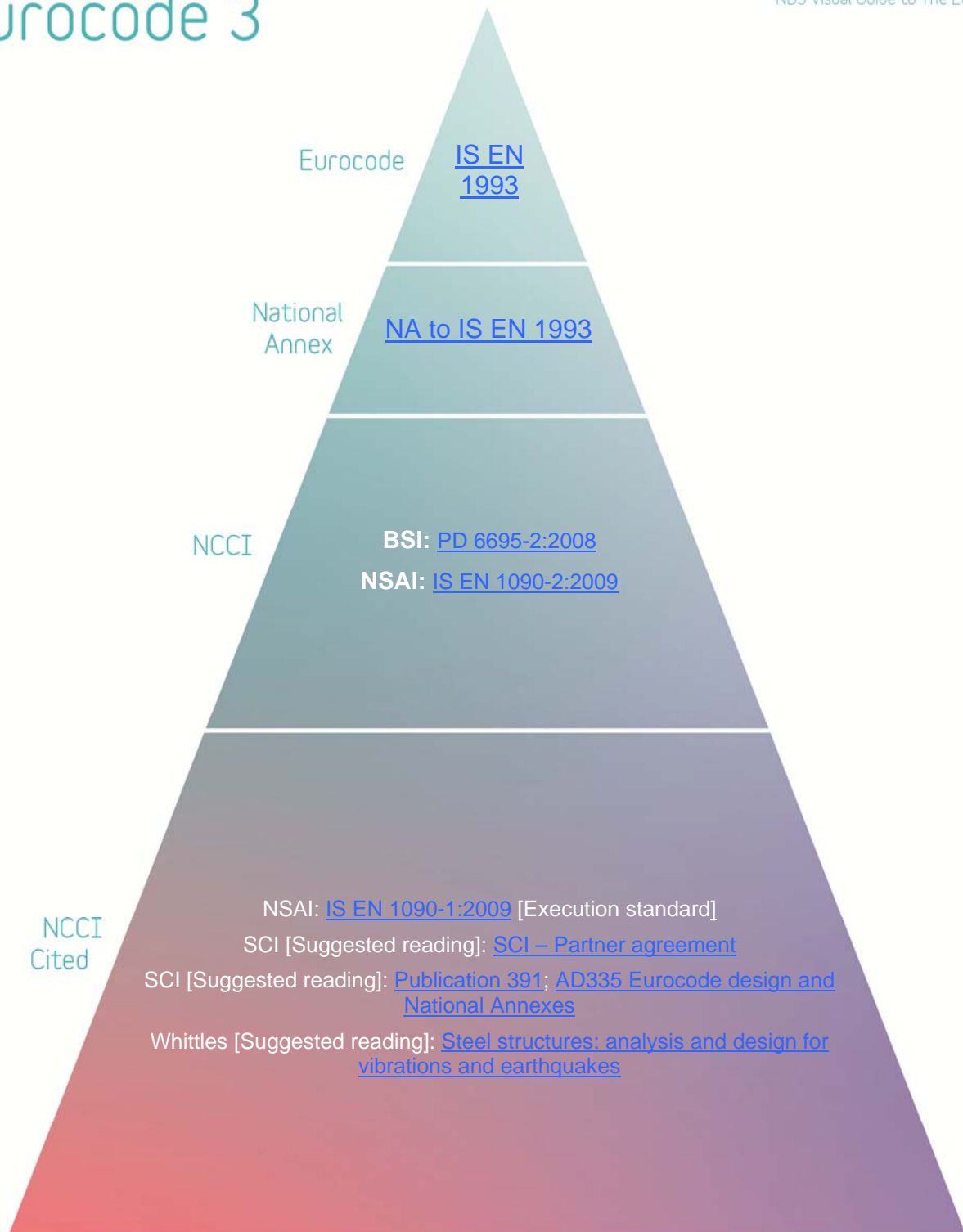
[Concrete design to EN 1992](#). Elsevier Press, 2005

[Guide to the design and construction of reinforced concrete flat slabs](#). Concrete Society, 2007.

Pike, D. et al. [Manual for the design of concrete building structures to Eurocode 2](#). ISE, 2006.

[Precast Eurocode 2: Design manual](#). British Precast Concrete Federation, 2007

Purkiss, J. A. [Fire safety engineering - Design of structures](#). (2nd edition). Elsevier Press, 2007

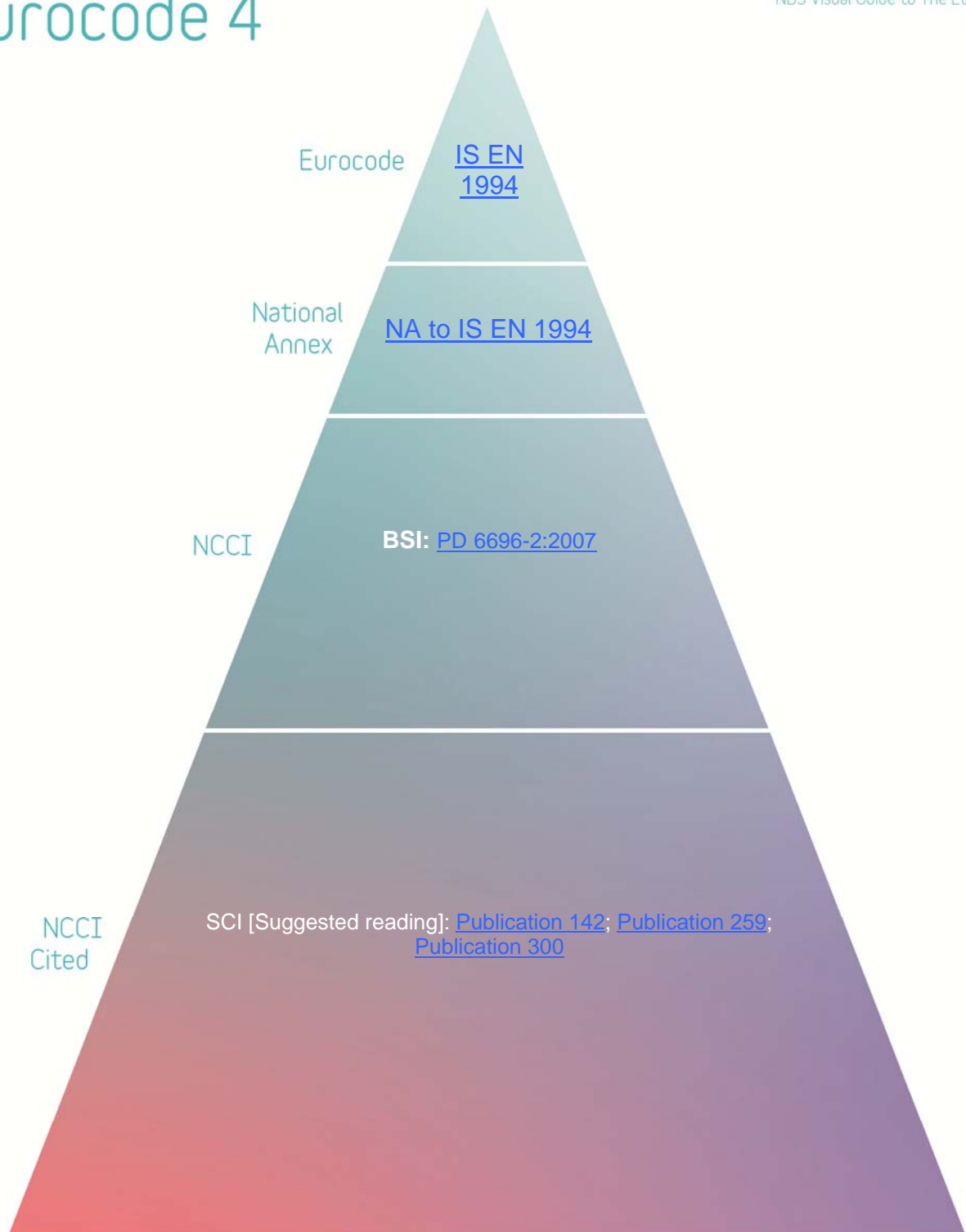


CEN Suggested Background Reading

[Design of steel portal frames for Europe](#). SCI Report - P164, 2001.

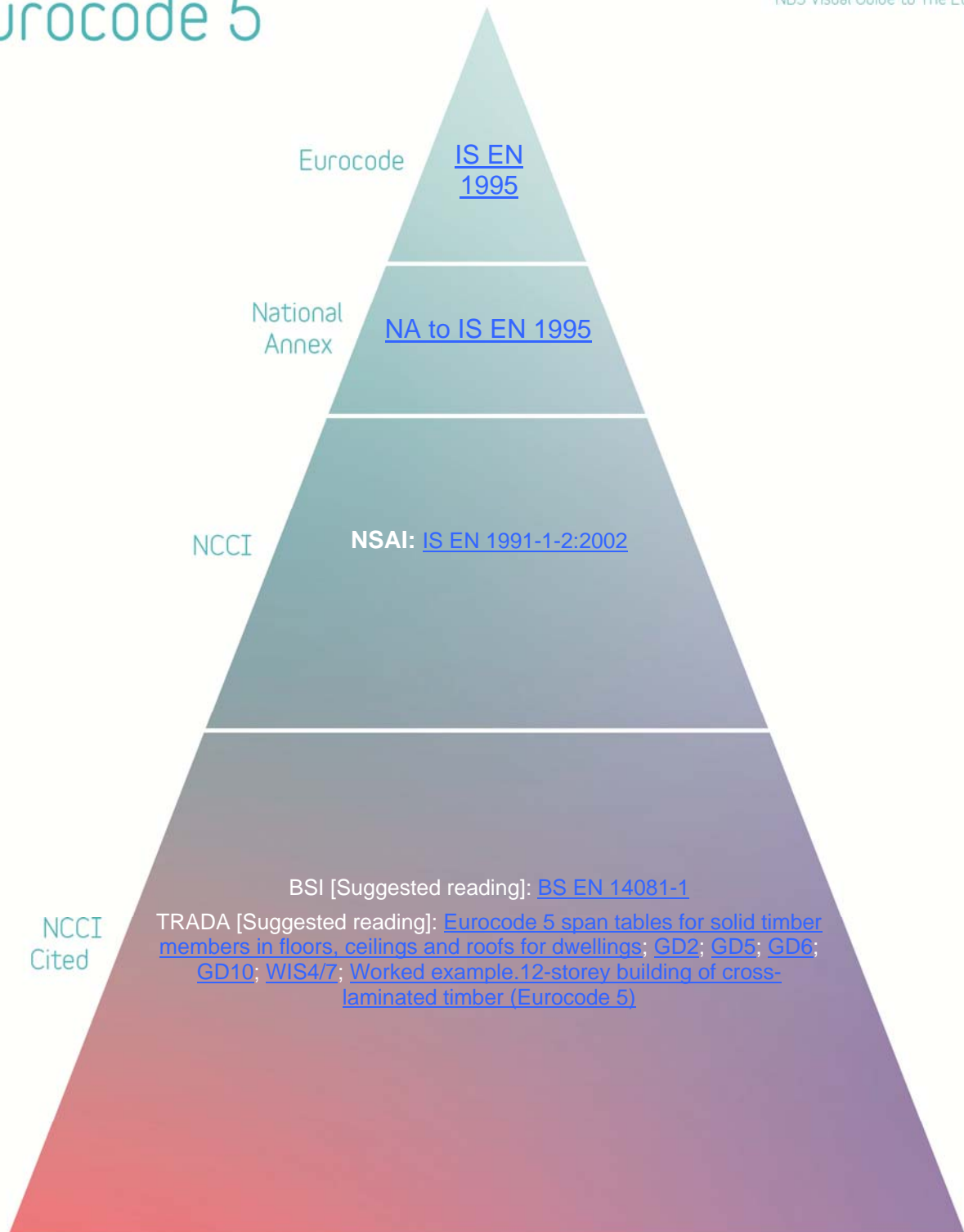
[Section properties and member resistances to Eurocode 3 \(UB, UC and hollow sections\)](#). SCI Report – P158, 1997.

Purkiss, J. A. [Fire safety engineering - Design of structures](#). (2nd edition). Elsevier Press, 2007



CEN Suggested Background Reading

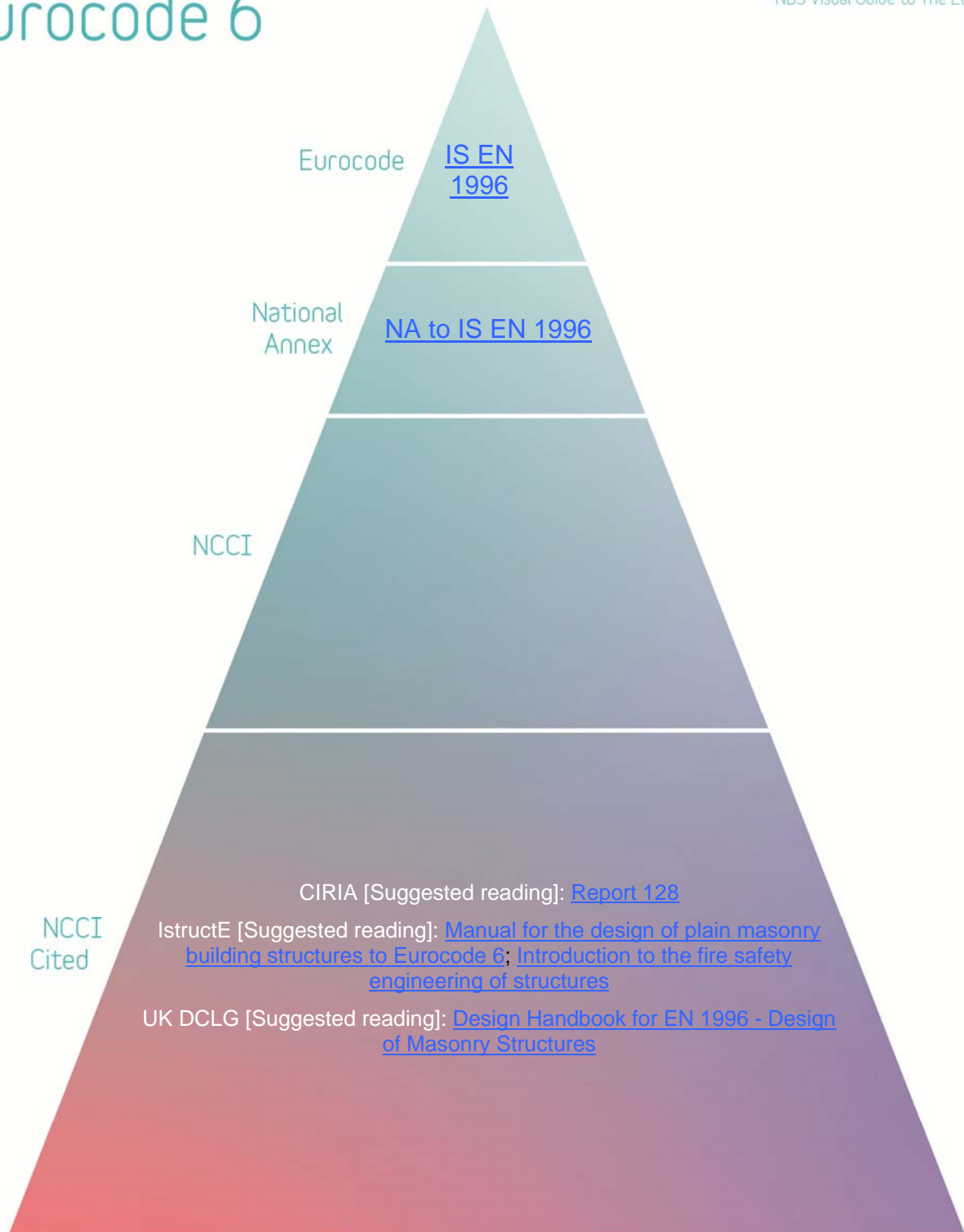
Purkiss, J. A. [Fire safety engineering - Design of structures](#). (2nd edition). Elsevier Press, 2007



CEN Suggested Background Reading

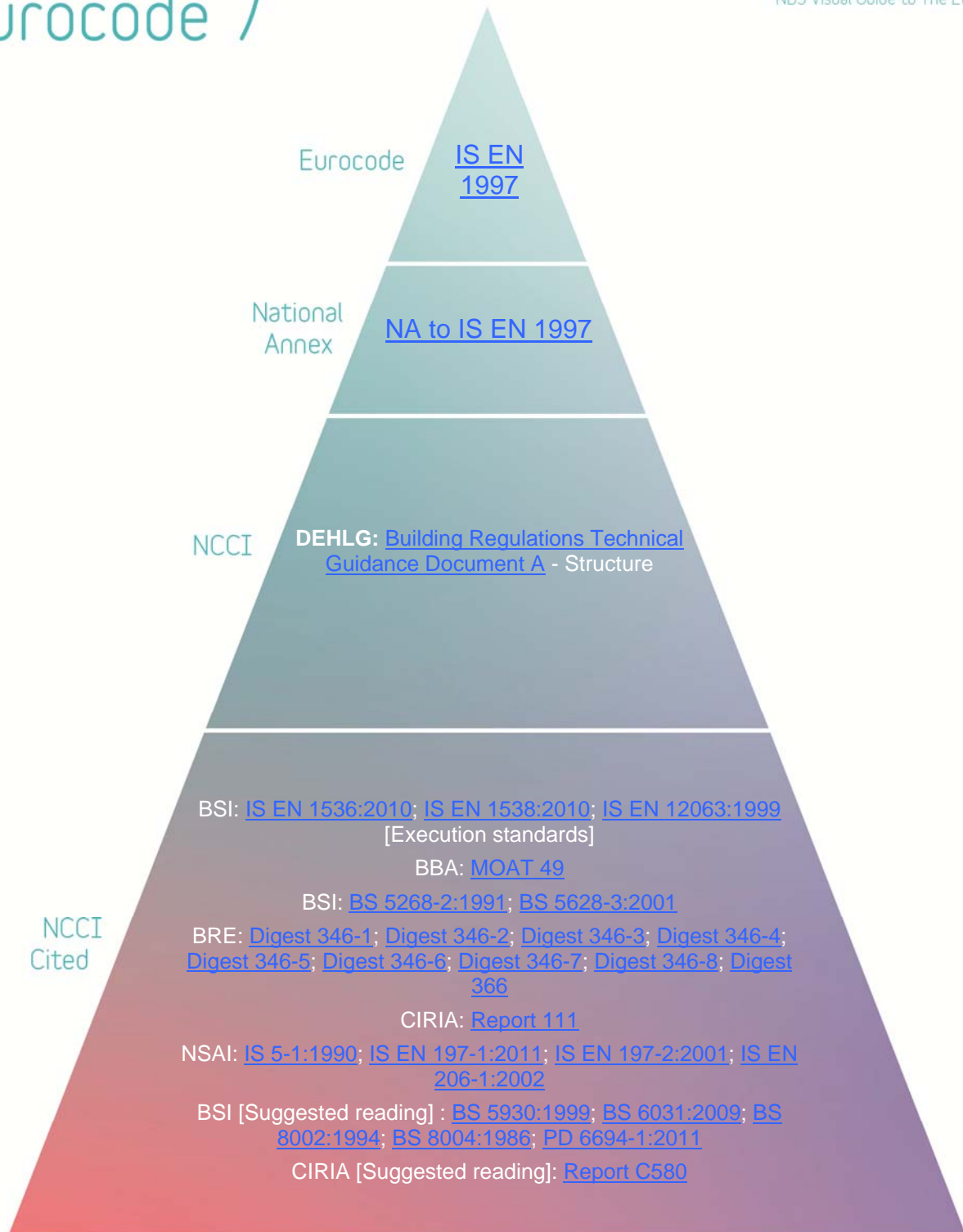
[Manual for the design of timber buildings structures to Eurocode 5](#). IStructE, 2005.

Purkiss, J. A. [Fire safety engineering - Design of structures](#). (2nd edition). Elsevier Press, 2007



CEN Suggested Background Reading

Purkiss, J. A. [Fire safety engineering - Design of structures](#). (2nd edition). Elsevier Press, 2007

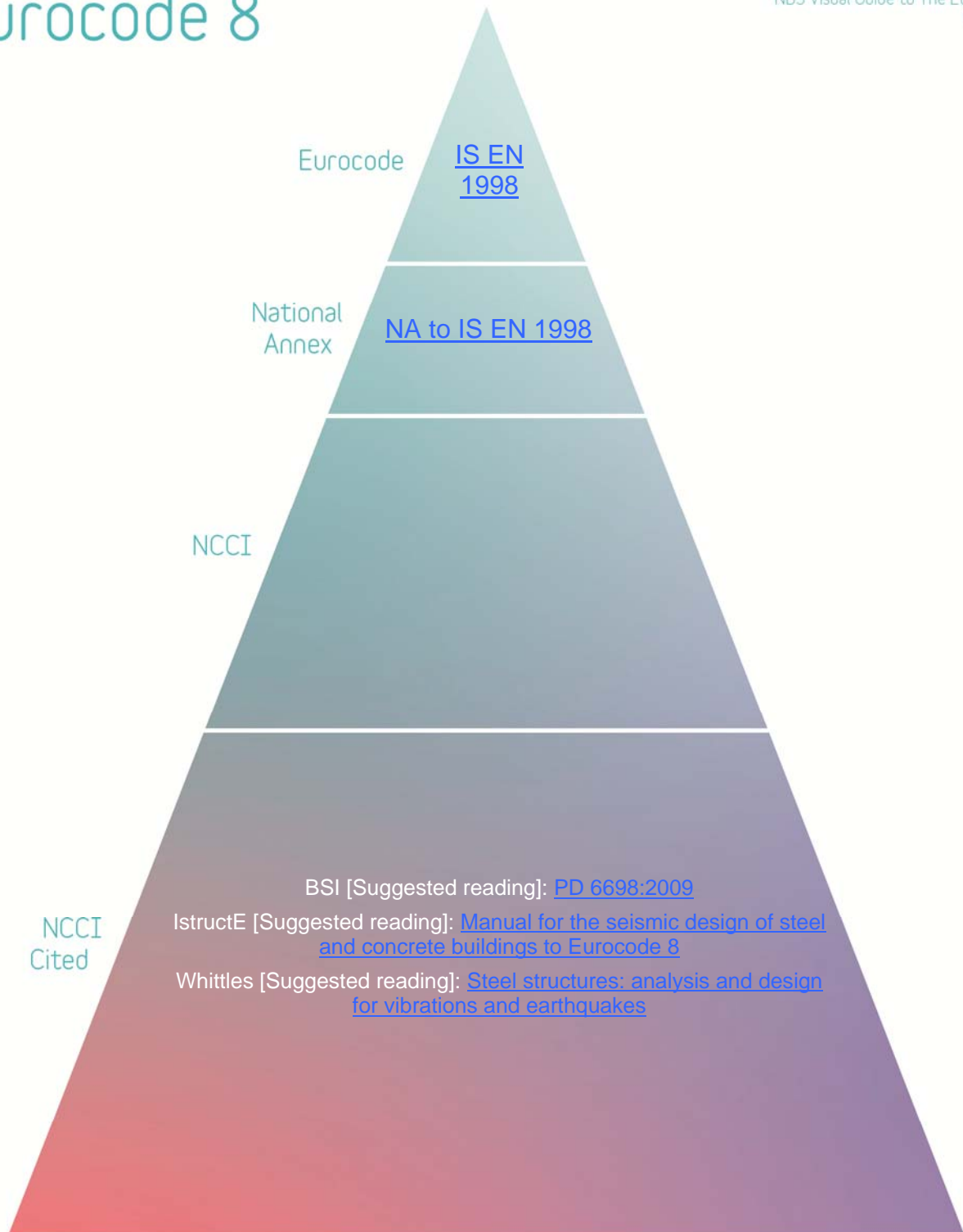


CEN Suggested Background Reading

[A Designer's Simple Guide to BS EN 1997](#). UK DCLG, 2006.

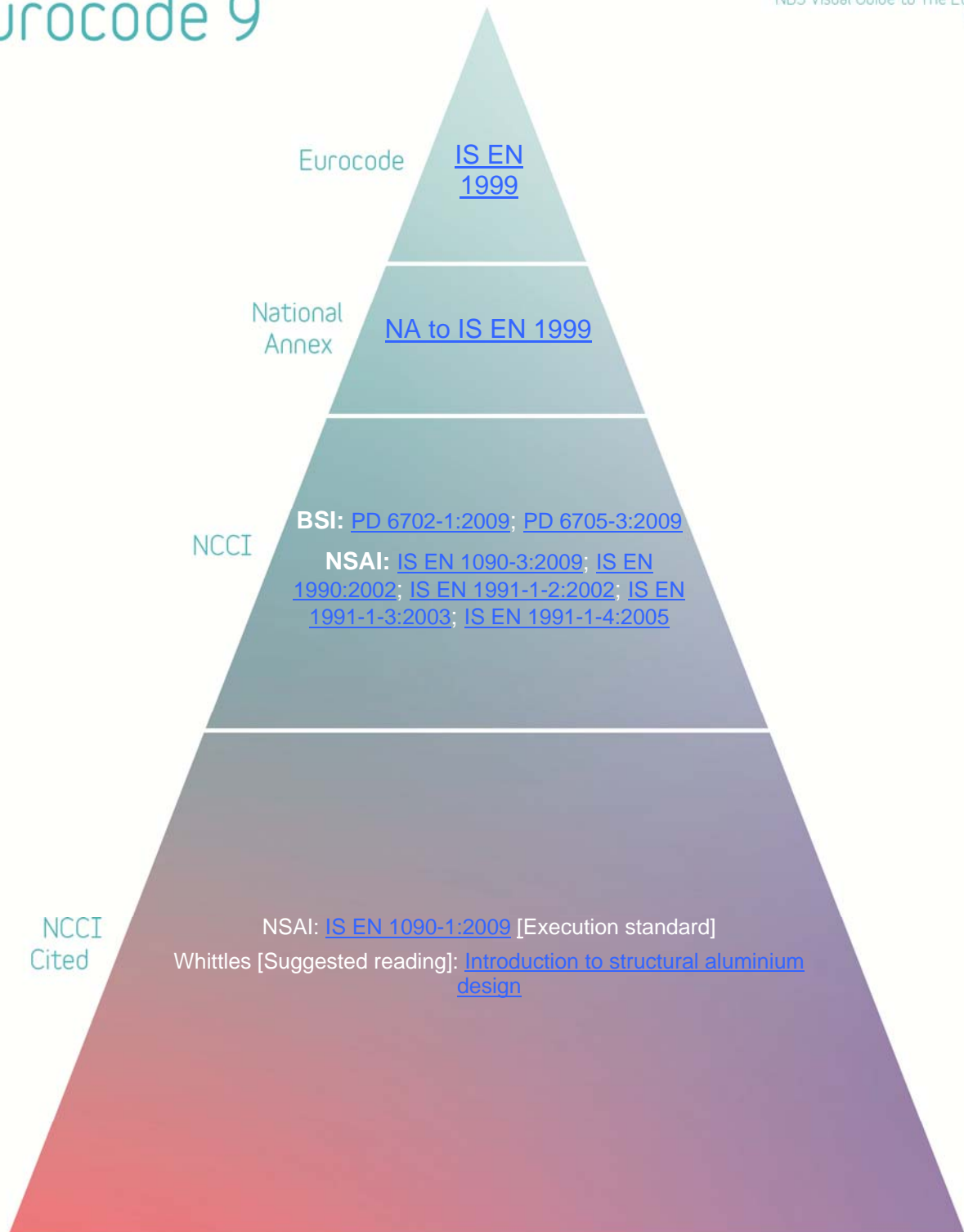
[The Observational Method in ground engineering: principles and applications](#). CIRIA Report R185, 1999.

Eurocode 8



CEN Suggested Background Reading

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CEN Suggested Background Reading

Purkiss, J. A. [Fire safety engineering - Design of structures](#). (2nd edition). Elsevier Press, 2007

[IS EN 1990:2002](#) Eurocode: Basis of structural design (including National Annex)

NCCI

BSI

[PD 6698:2009](#) Recommendations for the design of structures for earthquake resistance to BS EN 1998

[PD 6688-1-4:2009](#) Background information to the National Annex to BS EN 1991-1-4 and additional guidance

NCCI Cited

Suggested reading

BSI

[PD 6705-2:2010](#) Structural use of steel and aluminium. Recommendations for the execution of steel bridges to BS EN 1090-2

SCI

[AD335 Eurocode design and National Annexes](#)

TRADA

[GD2 How to calculate the design values of loads using Eurocodes. 2nd edition](#)

Background Reading

BSI

Structural Eurocodes Companion (BSI 2009) <http://www.bsigroup.com/Standards-and-Publications/Industry-Sectors/Eurocodes/The-BSI-Companion-to-the-Structural-Eurocodes/?id=139795>

UK DCLG

[Guide to the use of EN 1990 Basis of Structural Design](#). DCLG, 2006.

Elsevier

Purkiss, J. A. [Fire safety engineering - Design of structures](#). (2nd edition). Elsevier Press, 2007

European Commission

Implementation of the Eurocodes: Handbook 1 - Basis of structural design (2005)

<http://eurocodes.jrc.ec.europa.eu/showpublication.php?id=62>

Implementation of the Eurocodes: Handbook 2 - Reliability backgrounds (2005)

<http://eurocodes.jrc.ec.europa.eu/showpublication.php?id=63>

Thomas Telford

Designers' Guide to EN 1990 Eurocode: Basis of structural design. Thomas Telford Books, 2002

- [IS EN 1991-1-1:2002](#) Eurocode 1: Actions on structures - general actions. Densities, self weight, imposed loads for buildings (including National annex)
- [IS EN 1991-1-2:2002](#) Eurocode 1: Actions on structures. General actions - Actions on structures exposed to fire (including National annex)
- [IS EN 1991-1-3:2003](#) Eurocode 1 - Actions on structures. General actions - Snow loads (including National annex)
- [IS EN 1991-1-4:2005](#) Eurocode 1: Actions on structures. General actions - Wind actions (including National annex)
- [IS EN 1991-1-5:2003](#) Eurocode 1 - Actions on structures. General actions - Thermal actions (including National annex)
- [IS EN 1991-1-6:2005](#) Eurocode 1: Actions on structures. General actions - Actions during execution (including National annex)
- [IS EN 1991-1-7:2006](#) Eurocode 1: Actions on structures. General actions - Accidental actions (including National annex)
- [IS EN 1991-2:2003](#) Eurocode 1: Actions on structures. Traffic loads on bridges (including National annex)
- [IS EN 1991-3:2006](#) Eurocode 1: Actions on structures. Actions induced by cranes and machinery (including National annex)
- [IS EN 1991-4:2006](#) Eurocode 1 - Actions on structures. Silos and tanks (including National annex)

NCCI

BSI

- [BS 7818:1995](#) Specification for pedestrian restraint systems in metal
- [PD 6688-1-4:2009](#) Background information to the National Annex to BS EN 1991-1-4 and additional guidance
- [PD 6688-2:2011](#) Background paper to the UK National Annex to BS EN 1991-2 Traffic loads on bridges
- [PD 7974-1:2003](#) Application of fire safety engineering principles to the design of buildings. Initiation and development of fire within the enclosure of origin (Sub-system 1)

NRA

- [Part 2 \(TD 27/07\)](#) Road Geometry. Links. Cross sections and headrooms [DMRB Vol.6 Section 1]
- [Part 8A \(TD 19/09\)](#) Highway structures: Design (substructures and special structures) materials. Special structures. Safety barriers [DMRB Vol.2 Section 2]
- [Part 5 \(BD 60/10\)](#) Highway structures: Approval procedures and general design. General design. Use of I.S. EN 1991-1-7 for the design of accidental actions [DMRB Vol.1 Section 3]

NSAI

- [IS EN 1317-2:1998](#) Road restraint systems. Performance classes, impact test acceptance criteria and Test Methods for Safety Barriers.
- [IS EN 1337-1:2000](#) Structural bearings. General design rules
- [IS EN 1337-2:2000](#) Structural bearings. Sliding elements
- [IS EN 1337-3:2000](#) Structural bearings. Elastomeric bearings
- [IS EN 1337-4:2000](#) Structural bearings. Roller bearings
- [IS EN 1337-5:2000](#) Structural bearings. Pot bearings
- [IS EN 1337-6:2000](#) Structural bearings. Rocker bearings
- [IS EN 1337-7:2000](#) Structural bearings. Spherical and cylindrical PTFE bearings

Building Regulations Technical Guidance Documents 1997 and subsequent amendments (Quicklink)

NCCI Cited

DoT

- [Traffic Signs Manual](#). Department of Transport (2010)

NRA - DMRB

[BD 2/09](#) Technical Approval of Structures on Motorways and Other National Roads (DMRB 1.1.1A)
[BD 29/04](#) Design Criteria for Footbridges (DMRB 2.2.8)
[BD 52/07](#) The Design of Highway Bridge Parapets (DMRB 2.3.3)
[HD 39/01](#) Footway Design. (DMRB 7.2.5)
[TA 57/87](#) Roadside Features (DMRB 6.3)
[TA 69/10](#) The Location and Layout of Lay-bys (DMRB 6.3.3)
[TD 9/10](#) Road Link Design (DMRB 6.1.1)
[TD 10/07](#) Road Link Design for Type 2 and Type 3 Dual Carriageways (DMRB 6.1.1B)
[TD 22/06](#) Layout of Grade Separated Junctions (DMRB 6.2.1)
[TD 36/93](#) Subways for Pedestrians and Pedal Cyclists. Layout and Dimensions (DMRB 6.3.1)
[TD 40/94](#) Layout of Compact Grade Separated Junctions (DMRB 6.2.5)
[TD 41-42/09](#) Road Geometry. Junctions. Geometric design of major/minor priority junctions and vehicular access to national roads (DMRB 6.2.6)

NRA-MCDRW

Volume 1: [Specification for Road Works](#)
Volume 2: [Notes for guidance on the specification for road works](#)
Volume 4: [Road Construction Details](#)

NSAI

[IS EN 1317-1:2010](#) Road restraint systems. Terminology and general criteria for test methods.
[IS EN 1317-5:2007](#) Road restraint systems. Product Requirements, Durability and Evaluation of Conformity.
[IS EN 12767:2007](#) Passive safety of Support Structures for Road Equipment. Requirements and Test Methods.

Suggested reading

BRE

[Digest 439](#) Roof loads due to local drifting of snow (1999)

TRADA

[GD2 How to calculate the design values of loads using Eurocodes. 2nd edition](#)

Background Reading

UK DCLG

[Guide to the use of EN 1991-1-4 Wind Actions](#). DCLG, 2006.
[Guide to the use of EN 1991-1-7 Accidental Actions](#). DCLG, 2006.

Elsevier

Purkiss, J. A. [Fire safety engineering - Design of structures](#). (2nd edition). Elsevier Press, 2007

Thomas Telford

Cook, N. *Designers' Guide to EN 1991-1-4*. Thomas Telford, 2007. [Availability details]
http://www.thomastelford.com/books/bookshop_main.asp?ISBN=9780727731524
Holicky M, Gulvanessian H. *Designers' Handbook to Eurocode 1: Part 1: Basis of Design*. Thomas Telford, 1996. [Availability details] http://www.thomastelford.com/books/bookshop_main.asp?ISBN=0727731637

[IS EN 1992-1-1:2005](#) Eurocode 2: Design of concrete structures. General rules and rules for buildings (including National annex)

[IS EN 1992-1-2:2005](#) Eurocode 2: Design of concrete structures. General rules - Structural fire design (including National annex)

[IS EN 1992-2:2005](#) Eurocode 2: Design of concrete structures. Concrete bridges - Design and detailing rules (including National annex)

[IS EN 1992-3:2006](#) Eurocode 2: design of concrete structures. Liquid retaining and containment structures

NCCI

BRE

[Special Digest 1](#) Concrete in aggressive ground. 3rd edition

BSI

[BS 4449:2005](#) Steel for the reinforcement of concrete - Weldable reinforcing steel - Bar, coil and decoiled product – Specification

[BS 8666:2005](#) Scheduling, dimensioning, bending and cutting of steel reinforcement for concrete - Specification

Concrete Society

[TRE 43](#) Post-tensioned concrete floors - Design handbook. 2nd edition

[TRE 58](#) Deflections in concrete slabs and beams

IStructE

[Standard method of detailing structural concrete: a manual for best practice. 3rd edition](#)

NSAI

[IS EN 206-1:2002](#) Concrete - specification, performance, production and conformity

[IS EN 10080:2005](#) Steel for the reinforcement of concrete - Weldable reinforcing steel - General

NRA

[Part 5 \(BD 60/10\)](#) Highway structures: Approval procedures and general design. General design. Use of I.S. EN 1991-1-7 for the design of accidental actions [DMRB Vol.1 Section 3]

NCCI Cited

BSI

[BS 5400-4:1990](#) Steel, concrete and composite bridges. Code of practice for design of concrete bridges

[BS 5975:2008](#) Code of practice for temporary works procedures and the permissible stress design of falsework

[BS 6073-1:1981](#) Precast concrete masonry units. Specification for precast concrete masonry units

[BS 6349-1:2000](#) Maritime structures. Code of practice for general criteria

BRE

[Report 394](#) Task 4: Early striking of formwork and forces in backprops

BCA

[A guide to contractor detailing of reinforcement in concrete](#). Construct Concrete Structures Group

CIRIA

[Report 92](#) Reinforcement connector and anchorage methods

[Report 135](#) Concreting deep lifts and large volume pours

[Report 139](#) Water-resisting basements

[Report C660](#) Early-age thermal crack control in concrete

Concrete Society

[TR 22](#) Non-structural cracks in concrete. 4th edition

- [TR 31](#) Permeability testing of site concrete – A review of methods and experience
[TR 34](#) Concrete industrial ground floors - a guide to their design and construction. 3rd edition
[TR 44](#) The relevance of cracking in concrete to corrosion of reinforcement
[TR 59](#) Influence of tension stiffening on deflection of reinforced concrete structures
[TR 72](#) Durable post-tensioned concrete structures

Highways Agency

[BD 57/10](#) Highway structures: Approval procedures and general design. General design. Design for durability

IStructE

[Design recommendations for multi-storey and underground car parks](#). 4th edition
[Recommendations for the permissible stress design of reinforced concrete building structures](#)
[Manual for the design of reinforced concrete building structures to Eurocode 2](#)
[Standard method of detailing structural concrete: a manual for best practice](#). 3rd edition (2006)

NSAI

[IS EN 1916:2002](#) Concrete pipes and fittings, unreinforced, steel fibre and reinforced
[IS EN 14844:2006](#) Precast concrete products. Box culverts

Reinforced Concrete Council

[Large area pours for suspended slabs - A design guide](#)

SCI

[Publication 076](#) Design guide on the vibration of floors

TSO

[The Construction \(Design and Management\) Regulations 2007](#) (SI 2007/320)

Execution Standard

BSI

[IS EN 13670:2009](#) Execution of concrete structures

Background Reading

BPCF

[Precast Eurocode 2: Design manual](#). British Precast Concrete Federation, 2007

Concrete Centre

Concise Eurocode 2. Concrete Centre, 2009 [Availability details]
<http://www.eurocode2.info/main.asp?page=1244>
Concise Eurocode 2 for bridges. Concrete Centre, 2009 [Availability details]
<http://www.eurocodes.co.uk/PublicationView.aspx?PublicationID=231>
C H Goodchild, C.H. Webster, R.M. and Elliot, K.S. *Economic concrete frame elements to Eurocode 2*. concrete Centre, 2009. [Availability details]
http://www.concretecentre.com/online_services/publication_library/publication_details.aspx?PublicationId=693
Bond, A. J. et al. *How to design concrete structures to Eurocode 2*. Concrete Centre, 2007.
http://www.eurocode2.info/PDF/How_Slabs_June05.pdf
Properties of Concrete for use in Eurocode 2. Concrete Centre, 2007.
http://www.concretecentre.com/pdf/CCIP_Properties_of_Concrete.pdf

Concrete Society

[Guide to the design and construction of reinforced concrete flat slabs](#). Concrete Society, 2007.

DCLG

[Companion Document EN 1992-1-1: Eurocode 2: Design of Concrete Structures - Part 1: General rules and rules for buildings](#)

Elsevier

[Concrete design to EN 1992](#). Elsevier Press, 2005

Purkiss, J. A. [Fire safety engineering - Design of structures](#). (2nd edition). Elsevier Press, 2007

IStructE

Pike, D. et al. [Manual for the design of concrete building structures to Eurocode 2](#). ISE, 2006.

Thomas Telford

Hendy, C.R. and Smith, D.A. *Designers' Guide to EN 1992 Eurocode 2: Design of concrete structures. Part 2: concrete bridges*. Thomas Telford, 2007. [Availability details]

http://www.thomastelford.com/books/bookshop_main.asp?ISBN=9780727731593

Moore, D. et al. *Designers' Guide to EN 1991-1-2, EN1992-1-2, EN 1993-1-2 and EN 1994-1-2*. Thomas Telford, 2007.

[Availability details] http://www.thomastelford.com/books/bookshop_main.asp?ISBN=9780727731579

Narayanan, R. and Beeby, A. *Designers' Guide to EN 1992-1-1 and EN 1992-1-2 Eurocode 2: Design of Concrete Structures. General rules and rules for buildings and structural fire design*. Thomas Telford, 1996.

[Availability details]

http://www.thomastelford.com/books/bookshop_main.asp?ISBN=9780727731050

- [IS EN 1993-1-1:2005](#) Eurocode 3: Design of steel structures. General rules and rules for buildings (including National annex)
- [IS EN 1993-1-2:2005](#) Eurocode 3: Design of steel structures. General rules - Structural fire design (including National annex)
- [IS EN 1993-1-3:2006](#) Eurocode 3: Design of steel structures. General rules - Supplementary rules for cold-formed members and sheeting (including National annex)
- [IS EN 1993-1-4:2006](#) Eurocode 3: Design of steel structures. General rules - Supplementary rules for stainless steels (including National annex)
- [IS EN 1993-1-5:2006](#) Eurocode 3 - Design of steel structures. Plated structural elements (including National annex)
- [IS EN 1993-1-6:2007](#) Eurocode 3 - Design of steel structures. Strength and stability of shell structures (including National annex)
- [IS EN 1993-1-7:2007](#) Eurocode 3 - Design of steel structures. Plated structures subject to out of plane loading (including National annex)
- [IS EN 1993-1-8:2005](#) Eurocode 3: Design of steel structures. Design of joints (including National annex)
- [IS EN 1993-1-9:2005](#) Eurocode 3: Design of steel structures. Fatigue (including National annex)
- [IS EN 1993-1-10:2005](#) Eurocode 3: Design of steel structures. Material toughness and through-thickness properties (including National annex)
- [IS EN 1993-1-11:2006](#) Eurocode 3 - Design of steel structures. Design of structures with tension components (including National annex)
- [IS EN 1993-1-12:2007](#) Eurocode 3 - Design of steel structures. Additional rules for the extension of EN 1993 up to steel grades S 700 (including National annex)
- [IS EN 1993-2:2006](#) Eurocode 3: Design of steel structures. Steel bridges (including National annex)
- [IS EN 1993-3-1:2006](#) Eurocode 3 - Design of steel structures. Towers, masts and chimneys - towers and masts (including National annex)
- [IS EN 1993-3-2:2006](#) Eurocode 3 - Design of steel structures. Towers, masts and chimneys – chimneys (including National annex)
- [IS EN 1993-4-1:2007](#) Eurocode 3 - Design of steel structures. Silos
- [IS EN 1993-4-2:2007](#) Eurocode 3 - Design of steel structures. Tanks
- [IS EN 1993-4-3:2007](#) Eurocode 3 - Design of steel structures. Pipelines
- [IS EN 1993-5:2007](#) Eurocode 3 - Design of steel structures. Piling
- [IS EN 1993-6:2007](#) Eurocode 3: Design of steel structures. Crane supporting structures

NCCI

BSI

[PD 6695-2:2008](#) Recommendations for the design of bridges to BS EN 1993

NSAI

[IS EN 1090-2:2009](#) Execution of steel structures and aluminium structures. Technical requirements for steel structures

NCCI Cited

Execution Standard

[IS EN 1090-1:2009](#) Execution of steel structures and aluminium structures. Requirements for conformity assessment of structural components

Suggested reading

SCI

[Publication 391](#) Structural robustness of steel framed buildings

[AD335 Eurocode design and National Annexes](#)

Whittles

[Steel structures: analysis and design for vibrations and earthquakes](#)

SCI - Partner Agreement

[Steel design can be simple using EC3](#) (Jun-2008)

[Calculation of \$\alpha_{cr}\$](#) (Mar-2010)

[Column base stiffness for global analysis](#) (Apr-2006)

[Design of out of plane and transverse restraint systems for portal frames](#) (Mar-10)

[Design of roof trusses](#) (May-2006)

[Modelling of portal frames - elastic analysis](#) (Dec-2005)

[Frame Stability](#) (Jun-2008)

[Practical analytical models for portal frames \(plastic analysis\)](#) (Mar-2006)

[Simple Construction - Concept and Typical Frame Arrangements](#) (Oct-2005)

[Simple methods for second order effects in portal frames](#) (Mar-2006)

[Simplified approaches to the selection of equivalent horizontal forces for the global analysis of braced and unbraced frames](#) (Jun-2006)

[Buckling lengths of columns: rigorous approach](#) (Feb-2006)

[Critical axial load for torsional and flexural torsional buckling modes](#) (Feb-2005)

[Design of a notched section at the end of a beam](#) (Dec-2005)

[Design of out of plane and transverse restraint systems for portal frames](#) (Mar-2010)

[Design rules for web openings in beams](#) (May-2006)

[Determination of moments on columns in simple construction](#) (Apr-2005)

[Determination of non-dimensional slenderness of I and H sections](#) (Mar-2005)

[Effective lengths of columns and truss elements in truss portal frame construction](#) (Mar-2006)

[Elastic critical moment for lateral torsional buckling](#) (Mar-2005)

[Elastic critical moment of cantilevers](#) (Jun-2005)

[General method for out-of-plane buckling in portal frames](#) (Dec-2005)

[Initial Design of non Composite Beams](#) (Dec-2005)

[Initial Design of non Composite Beams \(GB\)](#) (Jun-2006)

[Mono-symmetrical uniform members under bending and axial compression](#) (Dec-2005)

[Torsion and torsional-flexural buckling](#) (Jun-2008)

[Blue Book Resistance Tables](#) (Jun-2008)

[Sizing guidance - non-composite columns \(H sections\)](#) (Mar-2006)

[Sizing guidance - non-composite columns-UC sections](#) (Mar-2006)

[Torsion](#) (Dec-2004)

[Verification of columns in simple construction – a simplified interaction criterion](#) (Mar-2006)

[Practical deflection limits for single storey buildings](#) (Mar-2006)

[Vertical and horizontal deflection limits for multi-storey buildings](#) (Feb-2006)

[Web bearing and Buckling resistance](#) (Mar-2010)

[Bearing column splices](#) (Feb-2006)

[Column splices not requiring full continuity of stiffness](#) (Aug-2005)

[Design model for non-bearing column splices](#) (Feb-2005)

[Initial sizing of fin plate connections](#) (Mar-2010)

[Initial sizing of non-bearing column splices](#) (Mar-2005)

[Initial sizing of simple end plate connections](#) (Mar-2005)

[Shear resistance of a fin plate connection](#) (Jan-2005)

[Shear resistance of a simple end plate connection](#) (Mar-2005)

[Tying resistance of a fin plate connection](#) (Mar-2005)

[Tying resistance of a simple end plate connection](#) (Mar-2005)

[Design model for simple column bases- axially loaded I section columns](#) (Mar-2010)

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