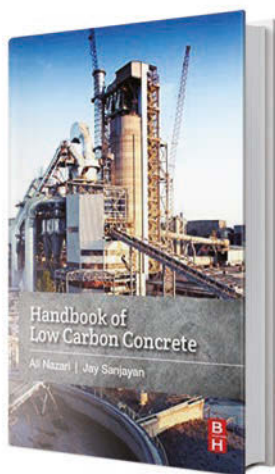


Curated by qualified librarians, the IStructE collection of structural engineering literature spans more than 250 years, making it one of the UK's most comprehensive specialist engineering resources. Both print and electronic titles are available (print titles can be requested via postal loan). www.istructe.org/library

Library update: Low-carbon concrete and concrete design

The Institution has a long association with concrete, having originally been founded as the Concrete Institute in 1908, with a fledgling library set up two years later.



Low-carbon concrete

For those looking to find out more about low-carbon concrete, in addition to the articles in this themed issue, good starting points are:

- | the *Low Carbon Concrete Routemap* (www.ice.org.uk/media/200i0yqd/2022-04-26-low-carbon-concrete-routemap-final_rev.pdf)
- | the Concrete Centre's *Concrete compass: low carbon concrete* page (www.concretecentre.com/Publications-Software/Concrete-Compass/Low-Carbon-Concrete.aspx)
- | the Concrete Centre's *Specifying sustainable concrete* publication (www.concretecentre.com/Resources/Publications/Specifying-Sustainable-Concrete.aspx)
- | the Global Cement and Concrete Association's *2050 Cement and Concrete Industry Roadmap for Net Zero Concrete* (<https://gccassociation.org/concretefuture>)

The Library itself holds the following useful publications:

- | *Low carbon concrete* (eds. Dhir and Paine, 2019) in the ICE Themes series
- | *Handbook of low carbon concrete**

- (Nazari and Sanjayan, 2017)
- | *Sustainable concrete solutions* (Georgopoulos and Minson, 2014).

Concrete design

There is a vast amount of information published on the subject of concrete more generally and the Institution's Library has a good selection of books on all aspects – design and construction, materials science, cement chemistry, concrete technology, corrosion and deterioration, maintenance and repair.

There has long been an interest in historic concrete and proprietary systems, which is particularly relevant for engineers assessing and potentially reusing or adapting existing structures. The following list gives a flavour of what the Library has available:

- | *Computational structural concrete: theory and applications*, 2nd ed. (Haussler-Combe, 2023)
- | *Non-destructive diagnostics of concrete floors: methods and case studies** (Sadowski and Hola, 2023)
- | *Appraisal and repair of existing concrete structures* (Kog, 2023)
- | *Nanotechnology for smart concrete** (Huseien et al., 2022)
- | *Optimization aided design: reinforced concrete** (Gaganelis et al., 2022)
- | *Fulton's concrete technology*, 10th

- ed. (ed. Alexander, 2021)
- | *Structural concrete: theory and design*, 7th ed.* (Hassoun and Al-Manaseer, 2020)
- | *3D printing of concrete: state of the art and challenges of the digital construction revolution** (ed. Perrot, 2019).

The Library's holdings are searchable in the catalogue at www.istructe.org/resources/library-services. Suggestions for other titles to be added are always welcome.

Titles marked with an asterisk (*) are available in the E-library.

IStructE bookshop

While visiting the Library, why not update yourself on the latest Institution publications, which include:

- | *Standard method of detailing structural concrete*, 4th ed. (2021)
- | *Manual for the design of concrete building structures to Eurocode 2* (2008).

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