

**Built Environment:
An online reading list from
the IET Library**



These ebooks and e journals, available via the [IET Virtual Library](https://theiet.org/virtual-library), focus on the topic of engineering in the built environment. They cover areas such as construction, smart cities and sustainability.

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Ebooks (provided by EBSCO)

[Biometric Data in Smart Cities: Methods and Models of Collective Behavior, Bilan et al. \(2021\).](#) This book is intended for undergraduate, graduate students and specialists working and conducting research in the field of biometric information processing, as well as in the development and construction of distributed intelligent systems.

[The Rise of Autonomous Smart Cities: Technology, Economic Performance and Climate Resilience, Allam Zaheer. \(2021\).](#) This book introduces the concept of the 'autonomous city'- a concept that has been developed from the 'smart cities' model that is based on a city's ability to gather data and taking it one step further.

[Energy Audit of Building Systems: An Engineering Approach, Krarti Moncef. \(2020\).](#) Updated to include recent advances, this third edition presents strategies and analysis methods for conserving energy and reducing operating costs in residential and commercial buildings.

[Green and Smart Technologies for Smart Cities, Pradeep Tomar and Kaur Gurjit. \(2020\).](#) The book starts with an overview of the role of cities in climate change and environmental pollution worldwide, followed by descriptions of smart cities and their expected features, focusing on green technology innovation.

[Demystifying Smart Cities: Practical Perspectives on How Cities Can Leverage the Potential of New Technologies, Anders Lisdorf. \(2020\).](#) This book is the essential guide to the Smart City process and provides a more well-rounded understanding of the full positive and negative impacts of Smart City technology deployment.

[Solar Energy Conversion Systems in the Built Environment, Ion Visa et al. \(2020\).](#) This book focuses on solar energy conversion systems that can be implemented in the built environment, at building or at community level.

[Disruptive Transport: Driverless Cars, Transport Innovation and the Sustainable City of Tomorrow, William Riggs. \(2019\).](#) The book contains a selection of contributions based on the most advanced empirical research, and case studies for how future transport can be harnessed to improve urban sustainability and justice.

[Smart Cities: Introducing Digital Innovation to Cities, Gassman et al. \(2019\).](#) The book identifies and addresses the core elements and potential of smart cities, best practice methods and tools to be implemented, as well as how diverse stakeholders might be effectively integrated.

[IET Wiring Regulations: Inspection, Testing and Certification, Brian Scadden. \(2019\).](#) Simplifies the advice found in the Wiring Regulations, explaining how they apply to working practice for inspection, testing and certification.

Ejournals (provided by EBSCO)

[Architect](#) Provides business tips and design ideas for industry professionals.

[Power Engineering](#) An engineering magazine in the fields of power generation, construction, retrofit, and maintenance.

[Building Design](#) Provides insight into the factors, issues and trends affecting today's building industry.

[Building Acoustics](#) A forum for engineers concerned with research and development for acoustic enhancement and noise control in buildings.

[Sustainable Architecture & Building](#) Covers sustainable non-residential building design through product news, building case studies, opinion articles, and technical articles.

[Green Builder Magazine](#) Devoted to helping the residential home industry incorporate green and sustainable practices.

[Architectural Record](#) Professional magazine for architects and engineers in areas of business, design and engineering.

[EC&M Electrical Construction & Maintenance](#) Articles and product news for electrical engineers and contractors.

[Consulting-Specifying Engineer](#) For professional engineers who design mechanical, electrical, electronic and related systems used in the building and construction industry.

[Science and Technology for the Built Environment](#) Focusing on scientific and technical innovation in the context of building and the built environment.

[Building Research & Information](#) Devoted to the effective communication of international progress in the field of building research.

Further resources from the IET

- [IET Smart Cities](#)
- [Communities and Networks](#)
- [Factfiles](#)
- [IET Digital Library](#)
- [Technical Webinars](#)

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IET members can access the Virtual Library via the single sign-on (SSO) service. If you are experiencing difficulties logging in via the SSO please contact the membership services team at membership@theiet.org.