

# Collection Highlights 2022:

## An online reading list from the IET Library



These ebooks and ejournals, available via the [IET Virtual Library](https://theiet.org/virtual-library) are the most popular titles chosen from 2022 covering a wide range of engineering topics.

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## Ebooks (provided by EBSCO and Knovel)

### [Energy Storage : Systems and Components, Rufer, A.. \(2018\).](#)

This book provides an overview of the development of new solutions and products that address key topics, including electric/hybrid vehicles, ultrafast battery charging, smart grids, renewable energy, peak shaving, and reduction of energy consumption.

### [Wind and Solar Power Systems : Design, Analysis, and Operation, Patel, M., Beik, O.. \(2021\).](#)

This book provides technological and socio-economic coverage of renewable energy. It discusses wind power technologies, solar photovoltaic technologies, large- scale energy storage technologies, and ancillary power systems.

### [Textbook of Renewable Energy, Bhatia, S. C., Gupta, R. K. \(2018\).](#)

A comprehensive guide to renewable energy technologies.

### [The Leader Lab: Core Skills to Become a Great Manager, Faster, Luna, T., and Renninger, L.. \(2021\).](#)

This book is based on LifeLabs Learning's successful workshop series. It combines research, tools, and an approachable style that makes it a valuable professional resource. IET Wiring Regulations: Inspection, Testing and Certification, Scadden, B.. (2019). Simplifies the advice found in the Wiring Regulations, explaining how they apply to working practice for inspection, testing and certification.

### [Transmission and Distribution Electrical Engineering, Bayliss, C.R., Hardy, B.J.. \(2012\).](#)

Utilizing examples from real-life systems and challenges, this book clearly and succinctly outlines fundamental knowledge requirements for working in this area.

### [Reliability, Maintainability and Risk - Practical Methods for Engineers \(9th Edition\), Smith, D. J.. \(2017\).](#)

This book provides engineers with the safety and risk assessment tools and techniques they need to work effectively in any safety or reliability critical environment.

### [Power Electronics Handbook \(4th Edition\), Rashid, M. H.. \(2018\).](#)

This book brings together over 100 years of combined experience in the specialist areas of power engineering to offer a fully revised and updated expert guide to total power solutions.

### [Wireless Communication Systems - From RF Subsystems to 4G Enabling Technologies, Du, KL., Swamy, M. N. S.. \(2010\).](#)

This practically-oriented, all-inclusive guide covers all the major enabling techniques for current and next-generation cellular communications and wireless networking systems.

### [Lees' Loss Prevention in the Process Industries, Volumes 1-3 - Hazard Identification, Assessment and Control \(4th Edition\), Mannan, S.. \(2012\).](#)

This book is the comprehensive and scaleable source of professional industrial process safety and loss prevention information. It provides users with the information they require to ensure process safety.

### [Sir Francis Ronalds: Father Of The Electric Telegraph, Ronalds, B. F.. \(2016\).](#)

Telecommunication has undergone unprecedented change in recent times. Sir Francis Ronalds foresaw its development. His subsequent creations, the most important of which include an early version of the telegraph, have had significant impact on modern living.

### [Introduction to Python for Science and Engineering, Pine, D. J.. \(2019\).](#)

This guide offers a quick and incisive introduction to Python programming for anyone. The author has carefully developed a concise approach to using Python in any discipline of science and engineering.

## Ejournals (provided by EBSCO)

**Energies.** Covers topics related to energy sources, systems, policy, and management.

**Harvard Business Review.** Presents analysis of management problems and practice in all fields of management and administration.

**International Journal of Production Research.** Deals with technology and fundamental behaviour of production resources.

**Wireless Communications and Mobile Computing.** A forum for sharing research and ideas in the telecommunications and networking industries.

**Polymers.** Covers analysis and research across a wide range of topics within organic chemistry.

**Advances in Materials Science & Engineering.** Publishes original research on all areas of materials science and engineering.

**Astronomy.** Publishes original astronomical research, with an emphasis on significant scientific results derived from observations.

**Railway Gazette International.** Dedicated to reporting news, analysing trends, and campaigning for development and investment in the rail industry.

**Electrical Engineering.** Features original articles drawn from the entire range of electrical and electronic engineering, including related fields in mathematics and physics.

**Journal of Civil Engineering and Management.** Fields of research concerning building materials, structure mechanics, road and bridge engineering and more.

## Further resources from the IET

- [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](mailto:membership@theiet.org).

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