

# Getting started in engineering: An online reading list from the IET Library



These ebooks and ejournals, available via the [IET Virtual Library](#) have been selected for those starting their careers in engineering. They cover career development, future technologies, essential engineering mathematics publications and introductions to key engineering topics.

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## Ebooks (provided by EBSCO and Knovel)

### [Electric Vehicles and the Future of Energy Efficient Transportation, Umashankar Subramaniam et al. \(2021\).](#)

This book is for policymakers, practitioners, engineers, technicians, researchers, academicians, and students looking for updated information on all aspects of electric vehicles.

### [Optimal Planning of Smart Grid with Renewable Energy Resources, Naveen Jain et al. \(2022\).](#)

Covering topics such as electric drives and energy systems, this publication is ideal for researchers, academicians, industry professionals, engineers, scholars, instructors, and students.

### [Biometric Data in Smart Cities: Methods and Models of Collective Behavior, Stepan 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.

### [Nuclear Power Explained, Dirk Eidemüller. \(2021\).](#)

This book explains everything you would want to know about nuclear power. It walks readers through the basics of nuclear physics and radioactivity, the history of nuclear power usage, and the science and engineering behind nuclear power plants.

### [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.

### [Advance: The Ultimate How-To Guide for Your Career, Gary Burnison. \(2020\).](#)

Includes advice on taking your career to the next level, career development tips and guidance on being seen and heard.

### [Simple Solutions to Energy Calculations, Richard Vaillencourt \(2014\).](#)

This book aims to simplify energy feasibility studies and associated calculations, sharing time saving methods and tips for complex energy calculations.

### [Mathematics Formulae for Engineers and Scientists, Engineering Mathematics Group \(2018\).](#)

This book provides easy and quick access to mathematics formulae for those who use them in their everyday work. This book is a useful reference for students who study engineering, science and technology.

### [The Future of Work: Robots, AI, and Automation, Darrell M. West. \(2018\).](#)

This book presents several proposals to help people deal with the transition from an industrial to a digital economy.

### [Engineering In Perspective: Lessons for A Successful Career, Tony Ridley. \(2017\).](#)

This book discusses how important it is that a successful engineer has not only traditional engineering skills, but also good interpersonal skills coupled with a deep understanding of social, economic, and political factors.

### [5G Technology: 3GPP New Radio, Harri Holma et al \(2020\).](#)

A comprehensive guide to 5G technology, applications, and potential for the future 5G brings new technology solutions to the 5G mobile networks including new spectrum options, new antenna structures, new physical layer and protocols designs and new network architectures.

### [Future Histories: What Ada Lovelace, Tom Paine, and the Paris Commune Can Teach Us About Digital Technology, Lizzie O'Shea. \(2019\).](#)

This book argues that we need to stop looking forward and start looking backwards. Weaving together histories of computing and progressive social movements with modern theories of the mind, society, and self.

## Ejournals (provided by EBSCO)

[Career Development Quarterly](#) (Articles on career assessment and measurement, career counseling practices, career indecision, case histories and work and family.)

[Journal of Career Development](#) (Provides professionals with the most up-to-date concepts, ideas, and methodology in career development theory, research, and practice.)

[Journal of Engineering Education](#) (Publishes articles on the field of engineering education, including the knowledge and competencies possessed by engineers, and how these are learned and assessed.)

[Advances in Engineering Education](#) (Focuses on advances in engineering education practice including innovations in course and curriculum design, teaching, and assessment.)

[Mathematical Problems in Engineering](#) (Publishes results of rigorous engineering research carried out using mathematical tools.)

[Applications of Mathematics](#) (Presents research about applications of mathematical methods in various branches of science and engineering.)

## Further resources from the IET

- [Communities and Networks](#)
- [Factfiles](#)
- [IET Digital Library](#)
- [IET Student Hub](#)
- [Technical Webinars](#)

## Help and contacts

If you need any assistance on using library collections and resources you can contact us via email at [libdesk@theiet.org](mailto:libdesk@theiet.org). You can also discover more resources and support provided by the IET Library and Archives at our [homepage](#).

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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