The Institution of Engineering and Technology

November 2024

Collection Highlights:

An online reading list from the IET Library

These eBooks and eJournals, available via the IET Library, have been selected to showcase some of our most popular titles as well as some not featured before and others picked by IET Library and Archives staff.

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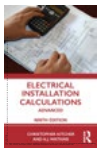
Contents

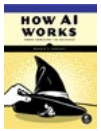
eBooks

Most popular eBooks

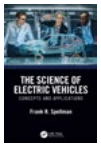


Electrical Installation Calculations : Advanced, Christopher Kitcher. (2022). The advanced calculations have been set out simply with worked examples, along with additional questions and answers.

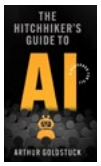
5G/5G-Advanced : The New Generation Wireless Access Technology, Erik Dahlman et al. (2024). Includes requirements, spectrum aspects and the standardization timeline, all technology features of the first phase of NR are described in detail.



How AI Works : From Sorcery to Science, Ronald T. Kneusel. (2024). This book explains the relationship between artificial intelligence, machine learning and deep learning, and why the artificial intelligence revolution is happening now.



The Science of Electric Vehicles : Concepts and Applications, Frank R. Spellman. (2023). This book examines the history and development of electric vehicles.



The Hitchhiker's Guide to AI : A Handbook for All, Arthur Goldstuck. (2023). As generative AI becomes a household phrase this guide offers an invaluable overview of the past, present and future of AI.

Practical Career Advice for Engineers : Personal Letters from an Experienced Engineer to Students and New Engineers, Radovan Zdero. (2021). A series of personal conversation-style letters that offers practical career advice to all engineers.

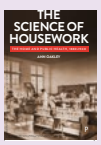
Power Electronics Handbook, Muhammad H. Rashid, (2023). Examines the foundations of power electronics, power semiconductor devices, and power converters.

Coding with AI For Dummies, Chris Minnick. (2024). Boost your coding output and accuracy with this book which introduces you to the many ways that artificial intelligence can make your life as a coder easier.

Future Fixed and Mobile Broadband Internet, Clouds, and IoT/AI, Toni Janevski. (2024). An all-in-one resource on the development of Internet and telecoms worldwide, based on various technological frameworks.

New to our reading lists

Atomic Blackmail? : The Weaponisation of Nuclear Facilities During the Russia-Ukraine War, Dr Simon Ashley Bennett. (2023). This book examines the danger of war being fought in proximity to nuclear facilities and working nuclear power stations.

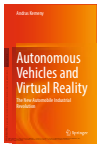


The Science of Housework : The Home and Public Health, 1880-1940, Ann Oakley. (2024). This book explores the buried history of the household science movement, including domestic science teaching, public health, and higher education for women.

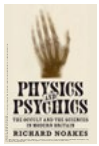
Green Software Engineering : Exploring Green Technology for Sustainable IT Solutions, Santiago Fontanarrosa. (2024). Through real-world examples and hands-on experiences, you'll gain the skills you need to craft environmentally responsible solutions aligned with green software engineering principles.

Design for Embedded Image Processing on FPGAs, Donald G. Bailey. (2023). Beginning with an overview of image processing and its core principles, this book discusses specific design and computation techniques, from the foundations of the field to its advanced principles.

Staff picks



Autonomous Vehicles and Virtual Reality : The New Automobile Industrial Revolution, Andras Kemeny. (2024). "Because as well as looking at trends in autonomous vehicles, it discusses the use of VR to help reduce car sickness." (Anne).



Physics and Psychics : The Occult and the Sciences in Modern Britain, Richard Noakes. (2019). "Because it offers a curious insight into a time in Britian where the occult and sciences were intermingled and had a fascinating relationship and influence on the other. Even the most rational minds were once intrigued by the paranormal." (Yen).

Future Histories : What Ada Lovelace, Tom Paine, and the Paris Commune Can Teach Us About Digital Technology, Lizzie O'Shea. (2019). "Because it looks at how the possibilities of the digital age are shaped by events and figures from the past, linking revolutionary movements in Algeria and the Paris Commune to today's technology presents." (Daniel).

eJournals

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

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

Lasers in Medical Science. (Presents the work of clinicians and scientists in the medical applications of lasers.)

Scientific American. (Authoritative articles from across the sciences by researchers and scientists.)

Consulting-Specifying Engineer. (Magazine for professional engineers who design mechanical, electrical, electronic, and related systems.)

Plant Engineering. (News, suggestions and solutions, new equipment, personnel, management, and feature articles aimed at the professional plant engineer.)

Software and Systems Modeling (SoSyM). (Focuses on theoretical and practical issues on the development and application of software and system modeling languages, techniques and methods.)

International Journal of Sustainable Energy. (Examines experimental, theoretical, and applied results concerning science and engineering of solar energy.)

Journal of Adhesion Science and Technology. (Covers the basic aspects, theories and mechanisms of adhesion and deals with applications of adhesion principles in all areas of technology.)