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IET eBook Collections

IET eBook Collections bring together our extensive range of engineering and technology research books, written by researchers for researchers. Our full collection of more than 800 books is available, along with a collection of this year's books and a selection of themed collections.

Our books aim to review the current state-of-the-art in hot topics in engineering and technology research including contributions from leading experts with a global perspective. We also publish books that take a deep dive into the fundamentals of engineering and technology topics that underpin today's research.

Growing from our heritage as subject experts in electrical and electronic engineering, our focus is on the technologies that will help engineer a better world by meeting the challenges of sustainability and climate change, digital futures, healthy lives, productive manufacturing and people-centred infrastructure.

Topics that we cover include:

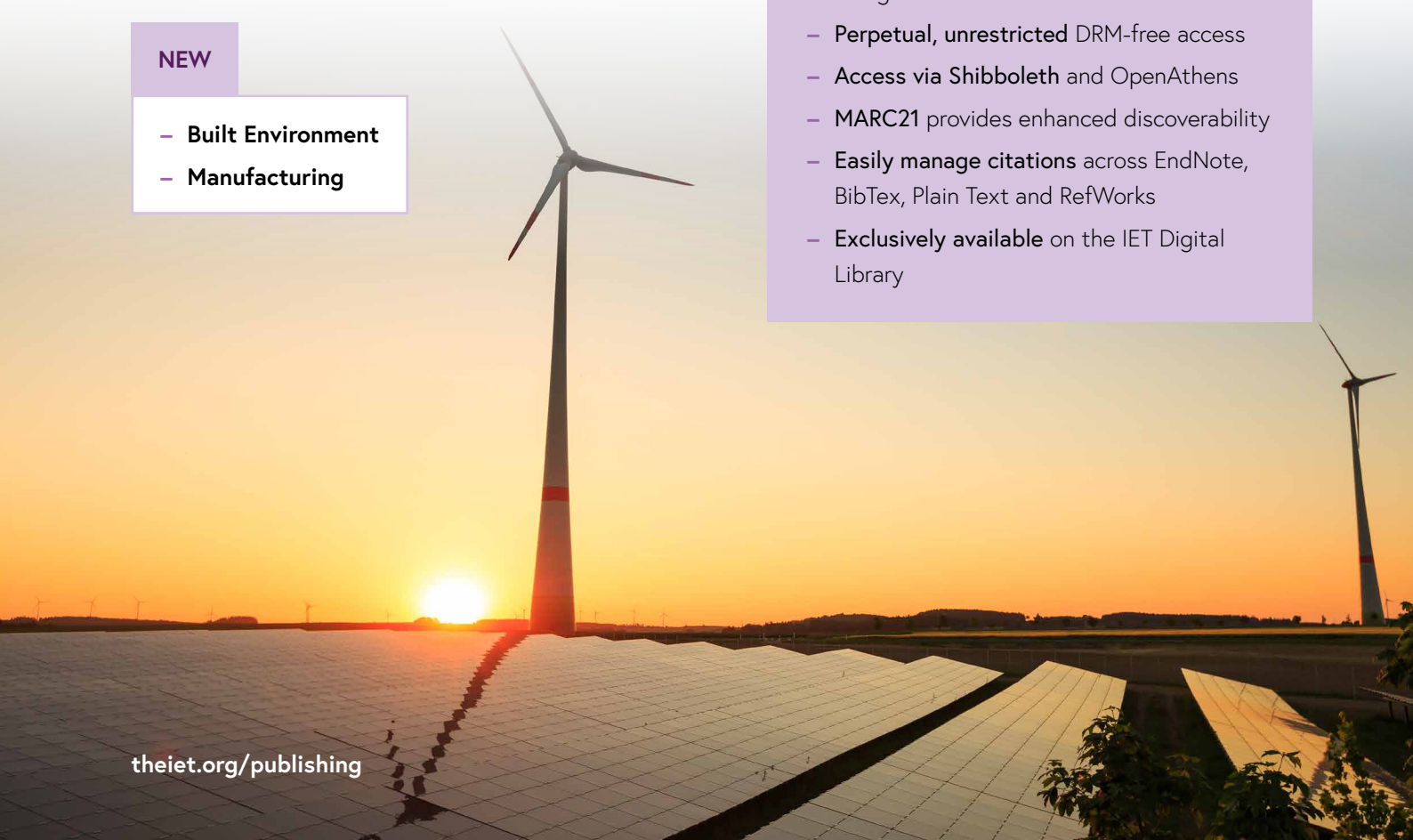
- **Control, Robotics and Sensors**
- **Electromagnetic Waves**
- **Energy Engineering**
- **Healthcare Technologies**
- **Information and Communications Technologies (ICT) and Cybersecurity**
- **Materials, Circuits and Devices**
- **Radar, Sonar and Navigation**
- **Transportation**

NEW

- **Built Environment**
- **Manufacturing**

KEY FEATURES

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Control, Robotics and Sensors

Sensors are used for environmental monitoring and have become essential to many fields; robots equipped with sensors are becoming widespread in settings from remote work to assembly; control methods are used to ensure that these devices and their environment are efficient, reliable and safe. Our books in this area bring together these three interconnected topics.



Electromagnetic Waves

The study of electromagnetic waves informs our understanding of many aspects of physics and engineering, including the underlying principles of antennas, telecommunications, imaging, sensing, energy harvesting, nanotechnology, and optics.



Energy Engineering

The transition to sustainable and reliable energy generation, transmission, storage and distribution underpins the fight against climate change and the emergence of the clean energy future we all aspire to, powering electric vehicles and smart cities. Energy Engineering is the largest of our publishing themes with strength in the full range of topics across grid energy (generation, transmission and distribution) and power electronics, and a growing focus on sustainable generation and smart grids.

Healthcare Technologies

Our books in this area explore the latest innovations that are delivering systems for e-Health, m-Health, precision and personalized medicine, medical robotics, prosthetics, and medical signal processing.



Information and Communications Technologies (ICT) and Cybersecurity

Technologies and applications that underpin the emerging digital world include smart cities, 5G and beyond, the IoT of everything, big data analytics, green communications sustainability, digitization, artificial intelligence, machine and deep learning, and virtualization. Securing this world is a key challenge and our publishing focus here is on biometrics, blockchain, trust and privacy, data management and integrity, and critical infrastructure protection.



Materials, Circuits and Devices

Electronics have shaped modern society. Research in the field must keep pace with our ever-growing demand for data by developing smaller, faster and more efficient electronic circuits and devices. Our books in this area provide depth and breadth of coverage of this fundamental topic.

Radar, Sonar and Navigation

Published under the well-regarded SciTech imprint, the IET book collection on radar covers theory and practice of systems and signals for radar, for navigation and surveillance purposes, in aerospace, terrestrial and other applications.

Transportation

Our books in this area explore how transportation systems are becoming more intelligent and more connected, bringing into play a range of related engineering topics including control systems, power systems and batteries, communication systems, and geographical information systems.

NEW

Built Environment

Built environment refers to the human-made surroundings that provide the setting for human activity, ranging in scale from buildings to parks and cities. Technological innovations in this area have the ability to enhance the wellbeing of people and support healthier communities – especially vital today with increased pollution, climate change issues, and the spread of infectious diseases. Key research themes include smart cities, green buildings, climate change adaptation, retrofit, building simulation, performance and control, pollution monitoring and control, sustainability and inclusive innovation.

Manufacturing

Manufacturing in the future will use computation to ensure the reliable translation of product designs to manufacturing plans. It will also require process controls that provide assurances that the delivery of those plans will produce products that meet specifications. This will necessitate the invention of new materials, chemicals, devices, systems, processes, machines, and design and work methods together with new social structures and business practices. The IET Book series covers all these areas, as well as advances in AI and machine learning, new cyber infrastructures, new approaches for mathematical and computational modeling, and new dynamics and control methodologies as applied to manufacturing and product design.

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