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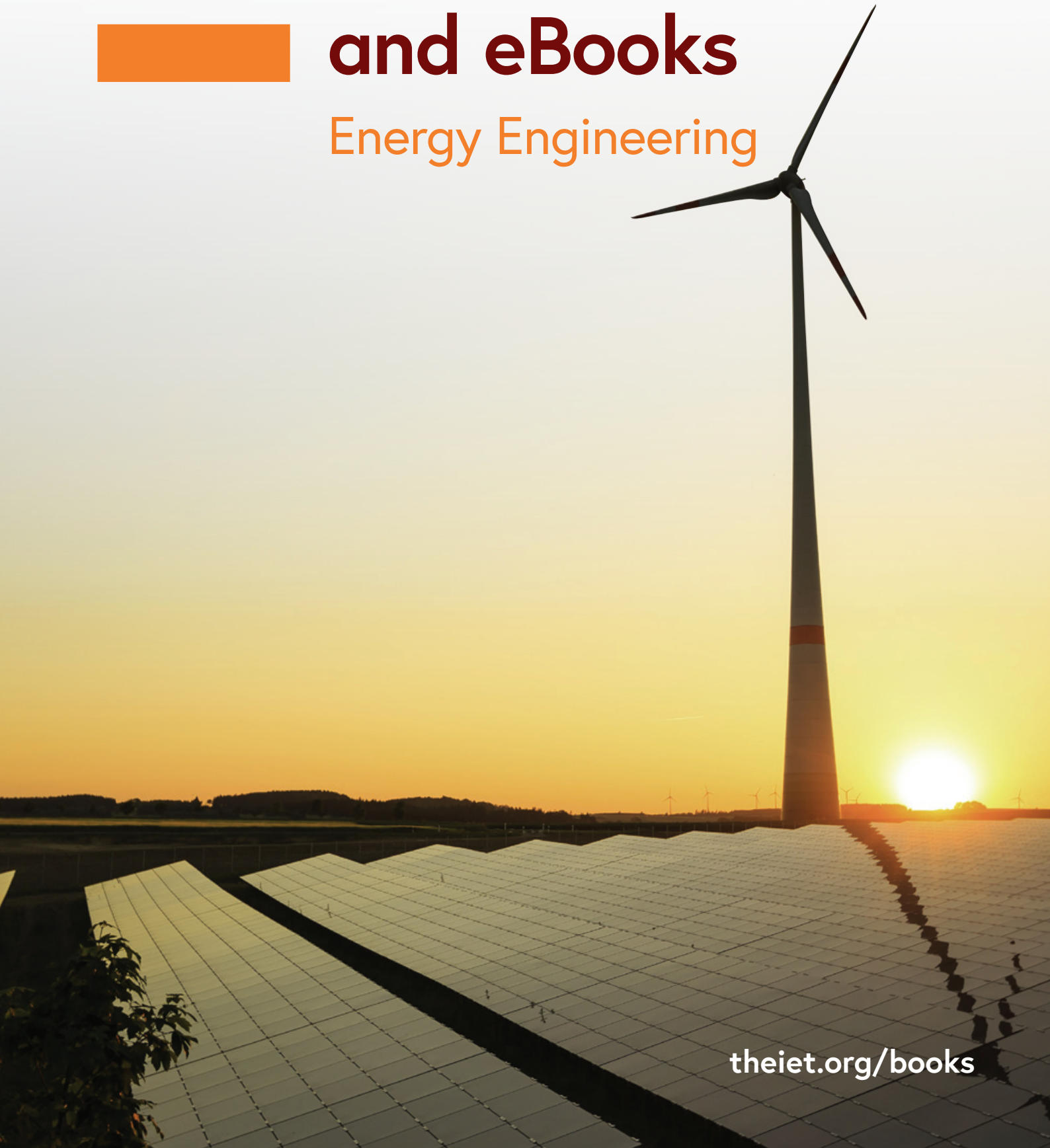
Energy Engineering



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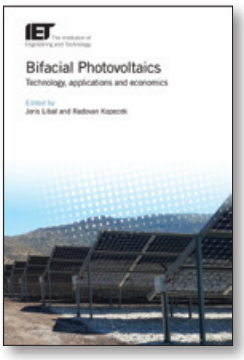
Energy Engineering - Highlights

Bifacial Photovoltaics: Technology, applications and economics

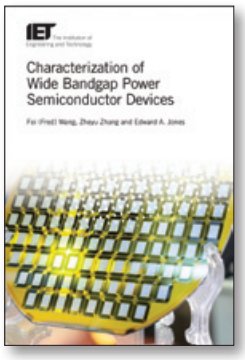


Editors: Radovan Kopecek & Joris Libal, ISC Konstanz, Germany

Bifacial photovoltaic (PV) modules are able to utilize light from both sides and can therefore significantly increase the electric yield of PV power plants, thus reducing the cost and improving profitability. This book provides an overview of the history, status and future of bifacial PV technology with a focus on crystalline silicon technology, covering the areas of cells, modules, and systems. In addition, topics like energy yield simulations and bankability are addressed.

2018 / 344pp / £115 / $150
Print PBPO1070 / 978-1-78561-274-9
eBook PBPO107E / 978-1-78561-275-6

Characterization of Wide Bandgap Power Semiconductor Devices

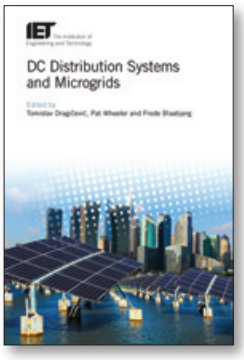


Authors: Fei (Fred) Wang, The University of Tennessee, USA ; Zheyu Zhang, General Electric Global Research, USA ; Edward A. Jones, Efficient Power Conversion Corporation, USA

Bifacial photovoltaic (PV) modules are able to utilize light from both sides and can therefore significantly increase the electric yield of PV power plants, thus reducing the cost and improving profitability. Bifacial PV technology has a huge potential to reach a major market share, in particular when considering utility scale PV plants. This book provides an overview of the history, status and future of bifacial PV technology with a focus on crystalline silicon technology, covering the areas of cells, modules, and systems. In addition, topics like energy yield simulations and bankability are addressed.

2018 / 376pp / £120 / $155
Print PBPO1280 / 978-1-78561-491-0
eBook PBPO128E / 978-1-78561-492-7

DC Distribution Systems and Microgrids

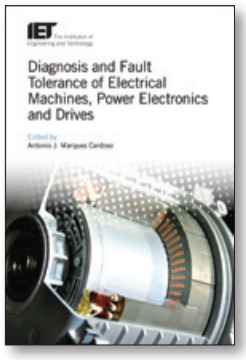


Editors: Tomislav Dragicevic et al., Aalborg University, Denmark

This volume from an international, world-class team is an up-to-date account of control and architectural design of DC distribution systems and microgrids. Ideal for engineers, academics and research students, it covers DC architecture and control, protection, microgrid standards, microgrid-based residential buildings and electric-vehicle charging technology. Practical details are given for real-world systems. It covers coordinated control design for intelligent real-time control of DC distribution systems, and explains stabilisation concepts.

2018 / 457pp / £125 / $160
Print PBPO1150 / 978-1-78561-382-1
eBook PBPO115E / 978-1-78561-383-8

Diagnosis and Fault Tolerance of Electrical Machines, Power Electronics and Drives



Editor: Antonio J. Marques Cardoso, University of Beira Interior, Portugal

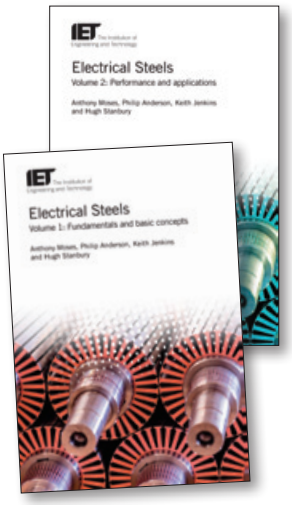
Up-to-date and system-oriented, this is a comprehensive, unified guide to possible faults in electromechatronic systems. It encompasses techniques for fault analysis, diagnostics, condition monitoring methods, reconfiguration, remedial operating strategies and fault tolerance in electrical machines, power electronics and key types of drives. It also covers remnant life estimation. A vital resource for researchers and professionals specialising in the design, development and application of electrical machines and power electronics.

2018 / 376pp / £120 / $155
Print PBPO1260 / 978-1-78561-531-3
eBook PBPO126E / 978-1-78561-532-0

Electrical Steels

Volume 1: Fundamentals and basic concepts

Volume 2: Performance and applications



Authors: Anthony Moses, Philip Anderson, Keith Jenkins and Hugh Stanbury, University of Cardiff, UK

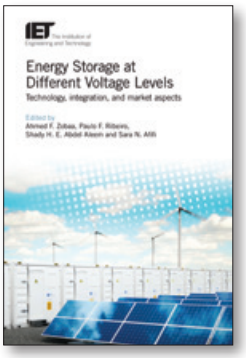
Electrical steels are critical components of magnetic cores used in applications ranging from large rotating machines, including energy generating equipment, and transformers to small instrument transformers and harmonic filters. Presented over two volumes, this comprehensive handbook provides full coverage of the state-of-the-art in electrical steels. Volume 1 covers the fundamentals and basic concepts of electrical steels, including production, differences between alloys and magnetic and mechanic properties. Volume 2 describes performance and outlines applications of electrical steels.

Vol 1: 2019 / 584pp / £135 / $175
Print PBPO157A / 978-1-78561-970-0
eBook PBPO157F / 978-1-78561-971-7

Vol 2: 2019 / 664pp / £125 / $165
Print PBPO157B / 978-1-78561-972-4
eBook PBPO157G / 978-1-78561-973-1

Set: 2019 / £210 / $240
Print PBPO157X / 978-1-78561-974-8

Energy Storage at Different Voltage Levels: Technology, integration, and market aspects

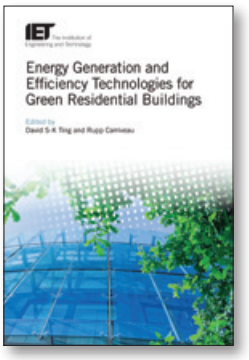


Editors: Ahmed Faheem Zobaa et al., Brunel University, UK

This comprehensive work addresses current and future roles of energy storage, prospects and challenges in the generation, transmission, distribution and customer levels of the grid. An international team of experts disclose scenarios for future storage technologies and electric vehicles. They demonstrate the risks and mitigation solutions for integration problems while illustrating the importance of energy storage in building sustainable modern power system grids. Economic and management aspects are also addressed using case studies.

2018 / 345pp / £115 / $150
Print PBPO1110 / 978-1-78561-349-4
eBook PBPO111E / 978-1-78561-350-0

Energy Generation and Efficiency Technologies for Green Residential Buildings

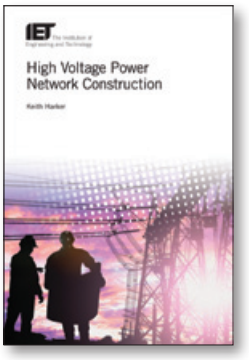


Editors: David S-K. Ting & Rupp Carriveau, University of Windsor, Canada

Residential buildings consume about a quarter of all energy in industrialized countries. Older and outdated heating and cooling technology causes high energy demand and, depending on building type, secondary causes can include ventilation and lighting. This book, written by international experts from academia and industry, presents technologies that reduce a residential building's energy consumption. Local energy generation is a key theme, including the use of sunlight to reduce heating needs, and using photovoltaics for electricity.

2019 / 288pp / £115 / $150
Print PBPO1550 / 978-1-78561-947-2
eBook PBPO155E / 978-1-78561-948-9

High Voltage Power Network Construction

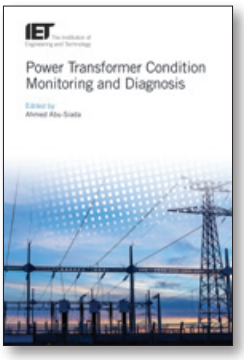


Author: Keith Harker, Consultant

This book is an up-to-date and comprehensive guide for engineers and researchers in high-voltage network construction. The book is structured around three parts: the specification and implementation of a technical solution; the execution of quality management system procedural arrangements; and assurance that all duty holders have the requisite competencies. The book discusses financial aspects; engineering contracts; project management; and health, safety and environmental practice. Interfaces with thermal and renewable power generation are also covered.

2018 / 768pp / £130 / $210
Print PBPO1100 / 978-1-78561-423-1
eBook PBPO110E / 978-1-78561-424-8

Power Transformer Condition Monitoring and Diagnosis

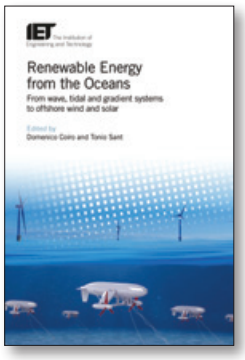


Editor: Ahmed Abu-Siada, Curtin University, Australia

Power transformers are a key asset for electricity utilities around the globe. However aging populations of large power transformers require reliable monitoring systems and diagnostics to extend the asset's lifetime and minimise the possibility of catastrophic failure. This book describes all current power transformer condition monitoring techniques from principles to practice.

2018 / 328pp / £115 / $150
Print PBPO1040 / 978-1-78561-254-1
eBook PBPO104E / 978-1-78561-255-8

Renewable Energy from the Oceans: From wave, tidal and gradient systems to offshore wind and solar

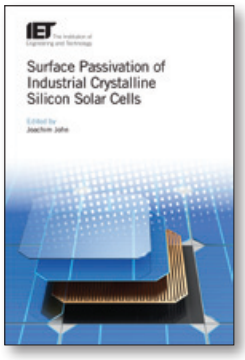


Editors: Tonio Sant & Domenico Coiro, University of Rome 1, Italy

This technology-oriented reference brings together international experts with academic and industry backgrounds to provide a systematic overview of ocean energy technologies. Covering technology, modelling, field experience, installation and grid connection, this is a high level technical overview of ocean renewable energy generation. It examines wave, tidal, current, salinity and thermal energy generation and includes the novel technology of marine solar arrays. The book is written for researchers and engineers involved in mechanical engineering, energy engineering and marine renewable energies.

2019 / 480pp / £125 / $165
Print PBPO1290 / 978-1-78561-766-9
eBook PBPO129E / 978-1-78561-767-6

Surface Passivation of Industrial Crystalline Silicon Solar Cells

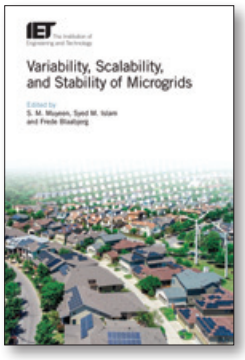


Editor: Joachim John, IMEC, Belgium

Surface passivation of solar cells is a technology for preventing electrons and ions, that have been generated by photons and are supposed to form the photovoltaic current, from recombining prematurely with one another. It thus increases the cell's energy conversion efficiencies and reduces the cost per kWh generated by a PV system. This timely overview of solar cell surface passivation is a key read for researchers working with solar cells, as well as solar cell manufacturers.

2018 / 288pp / £115 / $150
Print PBPO1060 / 978-1-78561-246-6
eBook PBPO106E / 978-1-78561-247-3

Variability, Scalability and Stability of Microgrids



Editors: S. M. Muyeen, et al., Curtin University, Perth, Australia

Here, the authors discuss variability, scalability, and stability of microgrids. They include coverage of virtual plants and storage, providing numerous examples and case studies as well as simulation/experimental results in each chapter. The book covers a broad range of topics such as demand-side energy management, transactive energy, clustered microgrids, virtual power plants and storage, optimizing and sizing of microgrid components. A key reference for engineers, researchers and advanced students in the field of power systems and related power electronics.

2019 / 648pp / £140 / $185
Print PBPO1390 / 978-1-78561-693-8
eBook PBPO139E / 978-1-78561-694-5

Energy Engineering - Forthcoming

to be published in 2020 and 2021

Title	Author(s)/Editor(s)	Price (£)	Price ($)	ISBN	eISBN	Product code
Advanced Characterization of Thin Film Solar Cells	Al-Jassim & Haegel (Eds)	£115.00	$150.00	978-1-83953-023-4	978-1-83953-024-1	PBPO166
Advanced Dielectric Materials for Electrostatic Capacitors	Li (Ed)	£115.00	$150.00	978-1-78561-988-5	978-1-78561-989-2	PBPO158
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Wind Turbine System Design (2-volume set)	Wenske (Ed)	£200.00	$250.00	978-1-78561-864-2	N/A	PBPO142X

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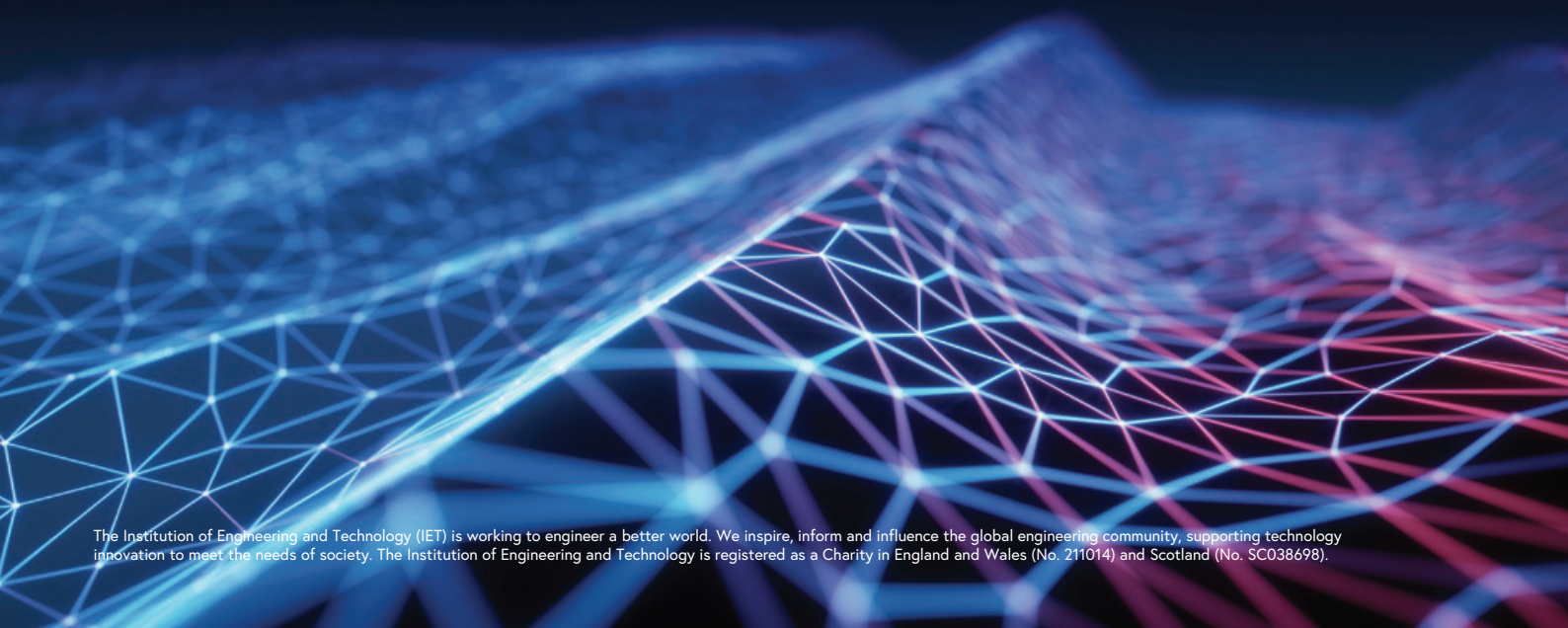

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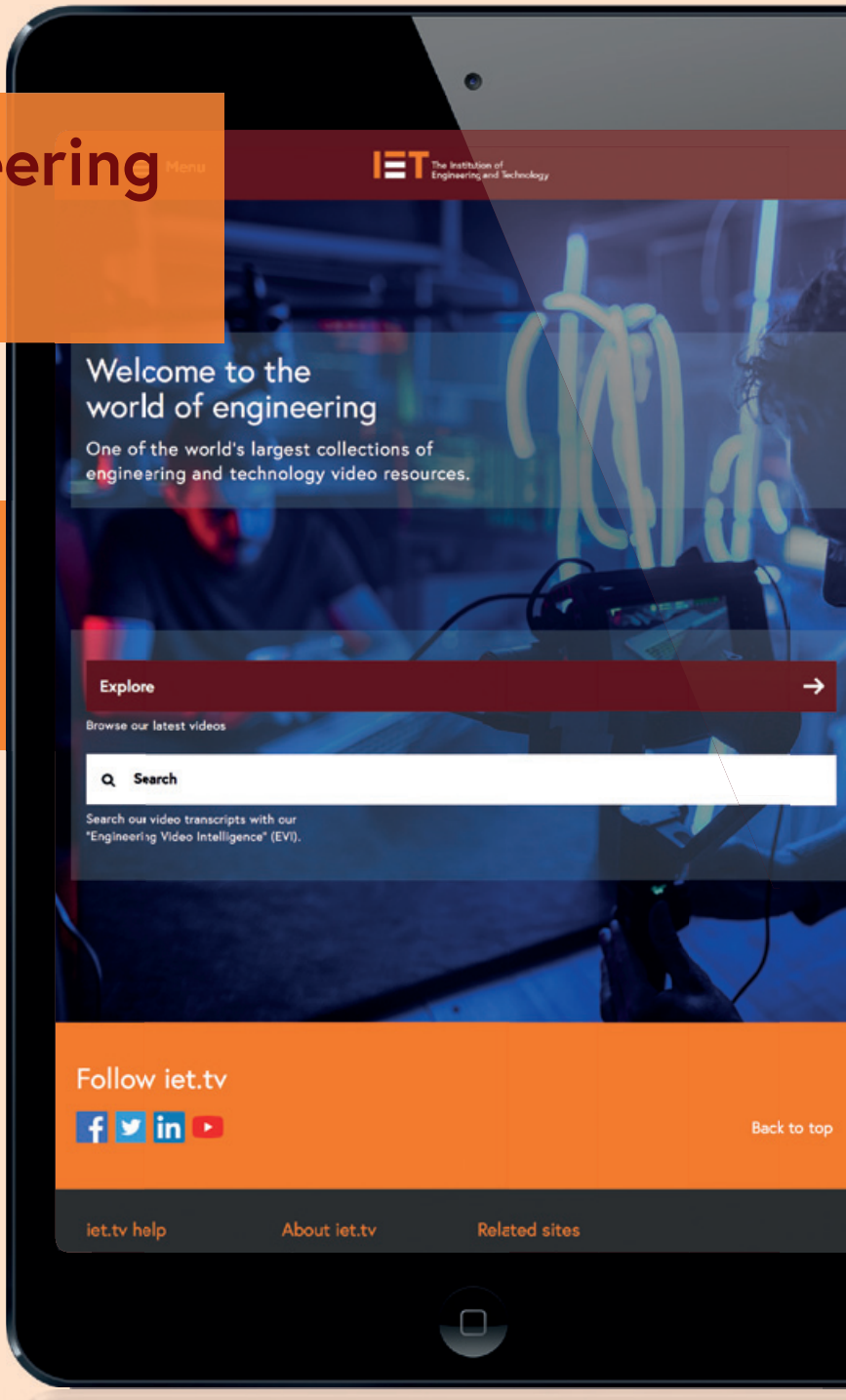

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