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New and Recent Titles



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The Correspondence of Michael Faraday
Volume 6 –
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The Institution prepares regulations for the safety of electrical installations for buildings, the IET Wiring Regulations (BS 7671), which has now become the standard for the UK and many other countries. It has also prepared the Code of Practice for Installation of Electrical and Electronic Equipment In Ships (BS 8450) and recommends, internationally, the requirements for Mobile and Fixed Offshore Installations. The Institution provides guidance on the application of BS 7671 through publications focused on the various activities from design of the installation through to final test and certification with further guidance for maintenance. This includes a series of eight Guidance Notes and two Codes of Practice.



New

July 2011

Requirements for Electrical Installations

IET Wiring Regulations Seventeenth Edition (BS 7671:2008 incorporating amendment number 1: 2011)

- the Wiring Regulations are the national standard to which all domestic and industrial wiring must conform
- essential for all electricians, electrical contractors and their managers, installation designers and students in further education and professional training

Contents: Scope, object and fundamental principles. Definitions. Assessment of general characteristics. Protection for safety. Selection and erection of equipment. Special installations or locations. Inspection and testing.

- Paperback c.429 pp
- July 2011
- ISBN: 978-1-84919-269-9
- Order book: PWR1701B
- £ £80



New

Oct 2011

On-Site Guide

BS 7671:2008

- the On-Site Guide is intended to enable the competent electrician to deal with small installations (up to 100 A, 3 phase), providing essential information in a convenient, easy-to-use form
- updated in line with the changes to BS 7671:2008 made in amendment number 1: 2011

Contents: The service position. Protection. Earthing and bonding. Isolation and switching. Labelling. Final circuits. Locations containing a bath or shower. Inspection and testing. Guidance on initial testing of installations. Operation of RCDs.

- Paperback c.190pp
- October 2011
- ISBN: 978-1-84919-287-3
- Order book: PWG0171B
- £ £24

Electrical Guidance

ISBN	Code	Title	Extent	Binding	Pub date	Price
978-0-86341-844-0	PWR1700B	Requirements for Electrical Installations, BS 7671:2008, IEE Wiring Regulations 17th Edition	389pp	PB	2008	£ £75
978-0-86341-854-9	PWG0170B	On-Site Guide BS 7671:2008	180pp	PB	2008	£ £22
978-1-84919-289-7	PWGP171B	Electrician's Guide to the Building Regulations Part P, 3rd Edition	c.244pp	PB	Oct 2011	£ £24
978-0-86341-862-4	PWGP170B	Electrician's Guide to the Building Regulations Part P, 2nd Edition	234pp	PB	2008	£ £22
978-0-86341-550-0	PWR05030	Electrical Installation Design Guide	186pp	PB	2008	£ £22
978-1-84919-271-2	PWG1171B	Guidance Note 1: Selection and Erection of Equipment, 6th Edition	c.226pp	PB	Nov 2011	£ £32
978-0-86341-855-6	PWG1170B	Guidance Note 1: Selection and Erection of Equipment, 5th Edition	216pp	PB	2009	£ £30
978-1-84919-273-6	PWG2171B	Guidance Note 2: Isolation and Switching, 6th Edition	-	PB	Jan 2012	£ £27
978-0-86341-856-3	PWG2170B	Guidance Note 2: Isolation and Switching, 5th Edition	74pp	PB	2009	£ £25
978-1-84919-275-0	PWG3171B	Guidance Note 3: Inspection & Testing, 6th Edition	-	PB	Oct 2011	£ £27
978-0-86341-857-0	PWG3170B	Guidance Note 3: Inspection & Testing, 5th Edition	128pp	PB	2008	£ £25
978-1-84919-277-4	PWG4171B	Guidance Note 4: Protection Against Fire, 6th Edition	c.138pp	PB	Jan 2012	£ £27

Electrical Guidance

ISBN	Code	Title	Extent	Binding	Pub date	Price
978-0-86341-858-7	PWG4170B	Guidance Note 4: Protection Against Fire, 5th Edition	104pp	PB	2009	£ 25
978-1-84919-279-8	PWG5171B	Guidance Note 5: Protection Against Electric Shock, 6th Edition	-	PB	Jan 2012	£ 27
978-0-86341-859-4	PWG5170B	Guidance Note 5: Protection Against Electric Shock, 5th Edition	115pp	PB	2009	£ 25
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978-0-86341-860-0	PWG6170B	Guidance Note 6: Protection Against Overcurrent, 5th Edition	113pp	PB	2009	£ 25
978-1-84919-283-5	PWG7171B	Guidance Note 7: Special Locations, 4th Edition	c.157pp	PB	Dec 2011	£ 27
978-0-86341-861-7	PWG7170B	Guidance Note 7: Special Locations, 3rd Edition	142pp	PB	2009	£ 25
978-1-84919-285-9	PWG8171B	Guidance Note 8: Earthing and Bonding, 2nd Edition	-	PB	Feb 2012	£ 27
978-0-86341-616-3	PWRG0241	Guidance Note 8: Earthing and Bonding, 1st Edition	168pp	PB	2007	£ 25
978-1-86341-966-9	PWR08640	Commentary on IEE Wiring Regulations 17th Edition (BS 7671:2008)	504pp	HB	2010	£ 65
978-0-86341-833-4	PWR08630	Code of Practice for In-Service Inspection and Testing of Electrical Equipment	152pp	PB	2007	£ 40
978-0-86341-563-0	PWR05100	Electrical Maintenance	227pp	PB	2006	£ 40
978-1-84919-130-2	PWR05130	Electrician's Guide to Fire Detection and Alarm Systems	160pp	PB	2010	£ 22
978-0-86341-551-7	PWR05020	Electrician's Guide to Emergency Lighting	88pp	PB	2009	£ 22

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978-0-86341-933-1	PBNS0340	Electrical Craft Principles Volume 2, 5th Edition	432pp	PB	2009	£ £25
978-1-84919-094-7	PWR04030	Recommendations for the Electrical and Electronic Equipment of Mobile and Fixed Offshore Installations incl supplement (2 volume set)	260pp	PB	2009	£ £75
978-0-58048-280-9	PWR03160	Code of Practice for Installation of Electrical and Electronic Equipment in Ships BS 8450	68pp	Loose-leaf	2006	£ £85
978-0-58045-158-4	PWR03070	Electrical Plugs and Wiring and World Electricity Supplies	272pp	PB	2005	£ £200
978-0-85296-846-8	PWR04020	Supplement to Recommendations for the Electrical and Electronic Equipment of Mobile and Fixed Offshore Installations	28pp	PB	1995	£ £15
978-0-85296-528-3	PWR04010	Recommendations for the Electrical and Electronic Equipment of Mobile and Fixed Offshore Installations	232pp	PB	1992	£ £65

ISBN	Code	Title	Extent	Binding	Pub date	Price
978-0-86341-886-0	PWR05090	Exam Success IEE Wiring Regulations 2382-20	68pp	PB	2008	£15
978-0-86341-885-3	PWR05080	Exam Success IEE Wiring Regulations 2382-10	136pp	PB	2008	£15
978-0-86341-899-0	PWR05110	Exam Success Inspection and Testing 2391-10	84pp	PB	2008	£15
978-0-86341-805-1	PWR05070	Exam Success IEE Code of Practice 2377	116pp	PB	2007	£15

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Model Form MF/1 and Model Form MF/2 are intended for use in home or overseas contracts for electrical and mechanical plant whereas Model Form MF/3 is for use in home contracts for electrical and mechanical goods. Model form MF/4 is for use in home or overseas contracts for the engagement of an Engineering Consultant. “Home” contracts include those under the laws of England and Wales, Scotland or Northern Ireland.

Model Forms of General Conditions of Contract

ISBN	Product Code	Title	Pub date	Price
978-1-84919-245-3	PMPA1060	MF/1 (Revision 5) Model Form of General Conditions of Contract	2010	£60
978-1-84919-247-7	PMPA1070	Commentary on MF/1 (Revision 5)	2010	£40
978-0-85296-858-1	PMOTR009	MF/2 (Revision 1) Model Form of General Conditions of Contract	1999	£60
978-0-85296-758-4	PMPA1020	Commentary on MF/2	2000	£45
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Sep 2011

High Voltage Engineering Testing

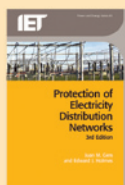
3rd Edition

Hugh Ryan (Editor)

- describes high voltage transmission and distribution systems and reflects changes in the sector
- intended for academics, students and graduates as well as experienced engineers

Contents: Electric power transmission and HV distribution systems. HVDC and power electronic systems. Insulation systems. Transmission systems. Overhead lines. High voltage cables. High voltage bushings. Substation design. Intelligent monitoring systems. Life management of electrical equipment. Switchgear fundamentals. Transmission switchgear design, development and service. Distribution switchgear design, development and service. Application of high power testing and measurement technology. Design of high voltage power transformers. Transformer user requirements, specifications and testing. Fundamental aspects of air breakdown. Basic measuring and testing techniques. Digital measurements: implications for new international standards and procedures. High voltage laboratory techniques.

- Hardback c.750pp
- 2011
- ISBN 978-1-84919-263-7
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- £95



New

Apr 2011

Protection of Electricity Distribution Networks

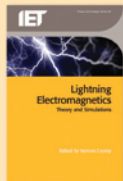
3rd Edition

Juan Gers

- updated to reference distributed generation, smart grids and standard IEC 61850
- valuable to undergraduate and post graduate students, and design, maintenance and consulting engineers

Contents: An introduction to electrical protection concepts. The calculation of short circuit currents and their application to relay setting. The classification of relays. An introduction to numerical protection. Current and voltage transformers. Overcurrent relays. The protection of distribution feeders. Directional, differential and distance protection. Protection of industrial systems. The treatment of concepts on load shedding. The most recommended schemes for different substation arrangements. Communication application in relays and the new IEC 61850 Standard. Suggestions on installation, testing and maintenance of protection systems.

- Paperback c.400pp
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New

Jul 2011

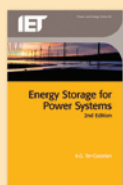
Lightning Electromagnetics

Vernon Cooray, Uppsala University (Editor)

- provides the theory, mathematics and computational tools to model each and every one of the processes associated with lightning discharges
- directly aimed at undergraduate and postgraduate physics and engineering students

Contents: Basic electromagnetic theory. Measurements of electromagnetic fields from lightning. Modelling charge generation in thunderclouds. How to simulate the electron runaway processes associated with thundercloud electric fields. Modelling initiation of lightning flashes. Modelling the stepped leaders to evaluate their electromagnetic fields. The full theory and simulation procedures to model the generation of corona from ground. The four ways of modelling the lightning return stroke. The theory and calculation procedures to evaluate the internal electric fields of leaders and return strokes. The effect of lightning on tall telecommunication towers. The propagation of lightning electromagnetic fields over grounds of different conductivities and geometries. The propagation of the electromagnetic fields around the globe. The study of the interaction of electromagnetic fields with the upper atmosphere. Generation of NOx from lightning flashes. How to calculate induced voltages in power lines.

- Hardback c.600pp
- 2011
- ISBN 978-1-84919-215-6
- Order book PBP00620
- £50



New

Apr 2011

Energy Storage for Power Systems

2nd Edition

Andre Ter-Gazarian

- covers both existing energy storage techniques and power system considerations for energy storage and storage applications
- ideal for university teachers and students who specialise in power systems development

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- 2011
- ISBN 978-1-84919-219-4
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- £80



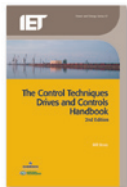
New Apr 2011
Ultracapacitor Applications

John Miller and Porter Mitchell,
 both of Maxwell Technologies

- takes an in-depth look at electrical storage of energy
- contains case studies ranging from commercial to industrial and automotive applications of not only ultracapacitors but of these components in combination with energy dense battery technologies

Contents: Types of ultracapacitors. Ultracapacitor modelling. Power and energy. Commercial applications. Industrial applications. Heavy transportation applications. Hybrid electric vehicles. Single mode power split architectures. 2 mode power split architectures. Cycle life testing. Abuse tolerance. Future transportation systems.

- Paperback c.424pp ■ 2011 £60
- ISBN 978-1-84919-071-8 ■ Order book PBP00590
- eISBN 978-1-84919-072-5



**The Control Techniques
 Drives and Controls
 Handbook**

2nd Edition

Bill Drury

- revised and updated edition, containing additional new information
- practical information for drives and industrial engineers who use motors and drives, easy to use for both student and practitioner

Contents: *Part A: Drive types and core technology.* Industrial motors. Drive converter circuit topologies. Power semiconductor devices. Torque, speed and position control. Position and speed feedback. Motion control. Voltage source inverter: four-quadrant operation. Switched reluctance and stepper motor drives. *Part B: The drive in its environment.* The AC supply. Interaction between drives and motors. Physical environment. Thermal management. Drive system power management: common DC bus topologies. Electromagnetic compatibility (EMC). Protection. Mechanical vibration, critical speed and torsional dynamics. Installation and maintenance of standard motors and drives. *Part C: Practical Applications.* Application and drive characteristics. Duty cycles. Interfaces, communications and PC tools. Typical drive functions. Common techniques. Industrial application examples. *Part D: Symbols and formulae.* Conversion tables. World industrial electricity supplies (<1 kV).

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- ISBN 978-1-84919-013-8 ■ Order book PBP00570
- eISBN 978-1-84919-101-2



Lightning Protection

Vernon Cooray, Uppsala University
 (Editor)

- enables engineers to make appropriate judgements in situations where conventional engineering solutions may be inadequate
- also intended as a textbook for use at both undergraduate and postgraduate level

Contents: Benjamin Franklin and lightning rods. Lightning parameters of engineering interest. Rocket-triggered lightning and new insights into lightning protection gained from triggered-lightning experiments. Attachment of lightning flashes to grounded structures. Protection against lightning surges. External lightning protection system. Internal lightning protection system. Risk analysis. Low frequency grounding resistance and lightning protection. High frequency grounding. Soil ionisation. Lightning protection of: low voltage networks, medium voltage lines, wind turbines, telecommunication towers, satellite launch pads, structures with risk of fire and explosion. Lightning and trees. Lightning warning systems. Lightning-caused injuries in humans. Lightning standards. High voltage and high current testing. Return stroke models for engineering applications.

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- ISBN 978-0-86341-744-3 ■ Order book PBP00580
- eISBN 978-1-84919-106-7



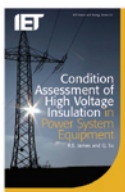
**Advances in High
 Voltage Engineering**

Manu Haddad, University of Cardiff
 and **Doug Warne,** REMaCS (Editors)

- an update to the advances in instrumentation and experimental techniques in high voltage engineering
- an ideal reference source for engineers and researchers

Contents: Mechanisms of air breakdown. SF₆ insulation systems and their monitoring. Lightning phenomena and protection systems. Partial discharges and their measurement. ZnO surge arresters. Insulators for outdoor applications. Overvoltages and insulation coordination on transmission networks. Earthing. Circuit breakers and interruption. Polymer insulated power cable. Numerical analysis of electrical fields in high voltage equipment. Optical measurements and monitoring in high voltage environments. Pulsed power: principles and applications.

- Paperback 668pp ■ 2009 £55
- ISBN 978-1-84919-038-1 ■ Order book PBP0040Z
- eISBN 978-0-86341-984-3



Condition Assessment of High Voltage Insulation in Power System Equipment

RE James and Q Su

- includes analyses of some of the insulation fault scenarios that may occur in power equipment
- comprehensive coverage of fault investigations, maintenance requirements, insulation testing and condition monitoring

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- Paperback 288pp
- 2008
- ISBN 978-0-86341-737-5
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- eISBN 978-0-86341-989-8

£ £30



Condition Monitoring of Rotating Electrical Machines

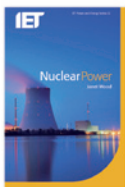
Peter Tavner, Li Ran, Jim Penman and Howard Sedding

- a revised and expanded edition merging the authors' own experience with that of machine analysts to bring it up to date
- includes new and important information about failure mechanisms, reliability, instrumentation, signal processing and the management of rotating machine assets

Contents: Nomenclature. Introduction to condition monitoring. Construction, operation and failure modes of electrical machines. Reliability of machines and typical failure rates. Instrumentation requirements. Signal processing requirements. Temperature monitoring. Chemical monitoring. Vibration monitoring. Electrical techniques: current, flux and power monitoring. Electrical techniques: discharge monitoring. Application of artificial intelligence techniques. Condition-based maintenance and asset management.

- Paperback 282pp
- 2008
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Nuclear Power

Janet Wood

- explains in detail how nuclear power works, its costs and benefits
- examines the risks and opportunities of investing in nuclear power long-term

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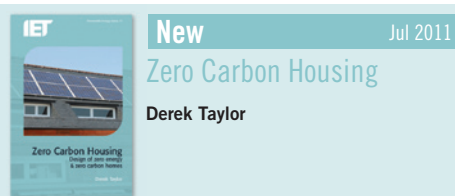
Also See

Electrical Systems in Transportation (Journal)

» Page 27

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978-0-85296-847-5	PBP0905X	Power System Protection, 4 volume set	AFAQ-ETA	HB	1997	£ £270
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New Jul 2011

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Derek Taylor

- the first book to focus on the zero energy/zero carbon design of houses
- of interest to architects and architectural students as well as local authorities

Contents: Generic definitions of zero energy design and zero carbon houses. Demand side measures and building fabric performance standards. Passive solar, super passive solar and PassivHaus aspects. Renewable energy technologies. Examples and case studies. Technical section.

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 ■ ISBN 978-1-84919-217-0 ■ Order book PBRN0120
 ■ eISBN 978-1-84919-218-7



New Dec 2010

Solar Photovoltaic Energy

Anne Labouret and Michel Villos

- gives a detailed account of the physical phenomena as well as the available technology and technology currently in development
- a professional manual on photovoltaic energy for designers, installers and managers

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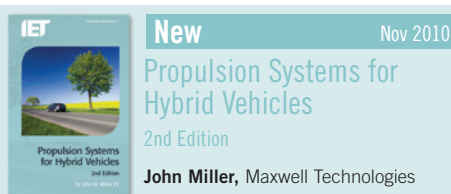
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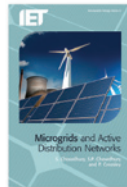
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New Jun 2011
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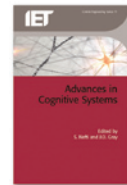
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MO Tokhi, University of Sheffield
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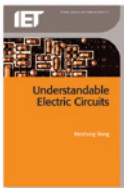
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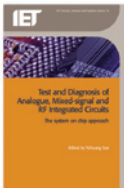
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Test and Diagnosis of Analogue, Mixed-signal and RF Integrated Circuits

The system on chip approach

Yichuang Sun, University of Hertfordshire (Editor)

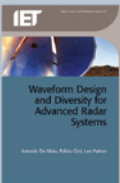
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Video Compression Systems

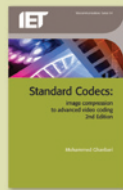
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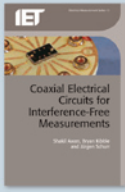
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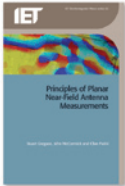
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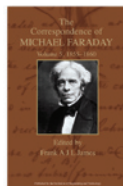
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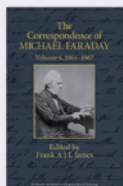
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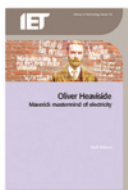
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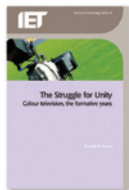
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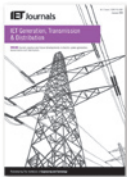


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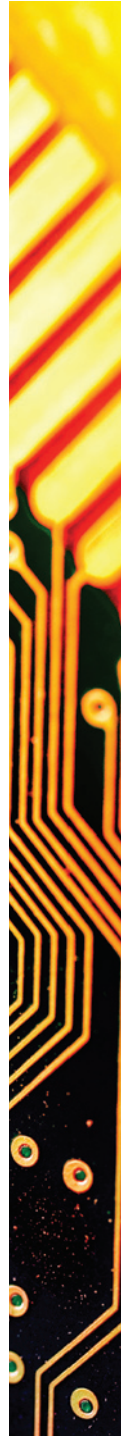
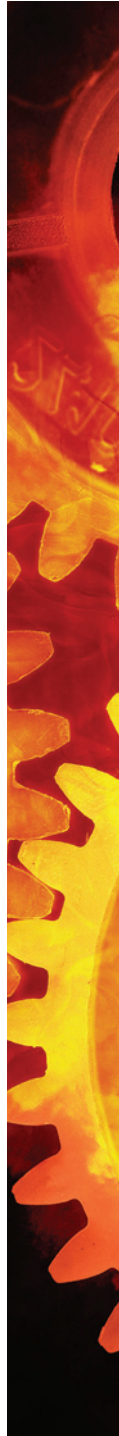
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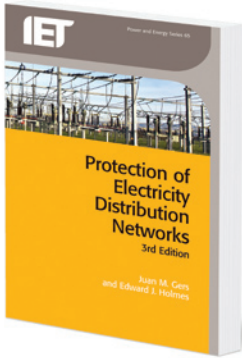
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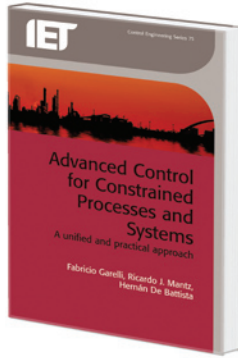
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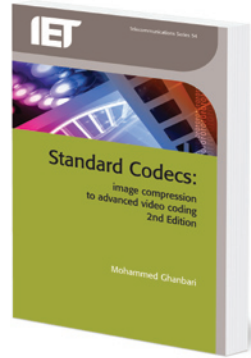
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