

IET Provisional 2020 list. Product code: PBLD020

PLEASE NOTE: ALL 2020 FRONTLIST TITLES ARE TBC. ONCE WE HAVE RECEIVED THE MANUSCRIPT THEY WILL BE FLAGGED AS "CONFIRMED". ONCE PUBLISHED THEY WILL BE MARKED "PUBLISHED"

Our 2020 Frontlist Collection will comprise the first 75 books we publish from the following list. We reserve the right to change the contents of this list without prior notice.
Please contact your local IET representative for further information.

Product code	Title	Author(s)/Editor(s)	eISBN	ISBN	Status	Collection	List Price (£)	List Price (\$)
PBPO172A	Lightning Interaction with Power Systems: Fundamentals	Piantini (Ed)	978-1-83953-091-3	978-1-83953-090-6	Confirmed	Energy Engineering	£125	\$165
PBPO172B	Lightning Interaction with Power Systems: Applications	Piantini (Ed)	978-1-83953-093-7	978-1-83953-092-0	Confirmed	Energy Engineering	£130	\$170.00
PBCE127	Sensors, Actuators, and Their Interfaces: A multidisciplinary introduction. 2nd edition	Ida	978-1-78561-836-9	978-1-78561-835-2	Confirmed	Control, Robotics & Sensors (Sensors)	£145	\$190
PBPC032	Network Classification for Traffic Management: Anomaly detection, feature selection, clustering and classification	Tari, Fahad, Almalawi & Yi	978-1-78561-922-9	978-1-78561-921-2	Confirmed	Computing (Big Data)	£110	\$145
PBCS064	Phase-Locked Frequency Generation and Clocking: Architectures and circuits for modern wireless and wireline systems	Rhee (Ed)	978-1-78561-886-4	978-1-78561-885-7	Confirmed	Materials, Circuits & Devices	£140	\$180
PBCE129	Signal Processing to Drive Human-Computer Interaction: EEG and eye-controlled interfaces	Kompatsiaris, Kumar & Nikolopoulos (Eds)	978-1-78561-920-5	978-1-78561-919-9	Confirmed	Control, Robotics & Sensors	£115	\$150
PBPO146	Energy Storage for Power Systems, 3rd Edition	Ter-Gazarian	978-1-78561-868-0	978-1-78561-867-3	Confirmed	Energy Engineering	£115	\$150
PBCS051	Modelling Methodologies in Analogue Integrated Circuit Design	Dünder & Yelten (Eds)	978-1-78561-696-9	978-1-78561-695-2	Confirmed	Materials, Circuits & Devices	£115	\$150
PBCS048	Gyrators, Simulated Inductors and Related Immittances: Realizations and Applications	Senani, Bhaskar & Singh	978-1-78561-671-6	978-1-78561-670-9	Confirmed	Materials, Circuits & Devices	£140	\$185
PBCS055	Hardware Architectures for Deep Learning	Daneshtalab & Modarressi (Eds)	978-1-78561-769-0	978-1-78561-768-3	Confirmed	Materials, Circuits & Devices	£115	\$150
PBCS049	Advanced Technologies for Next Generation Integrated Circuits	Srivastava & Mohanty (Eds)	978-1-78561-665-5	978-1-78561-664-8	Confirmed	Materials, Circuits & Devices	£115	\$150
PBCE116	Imaging Sensors	Yang	978-1-78561-498-1	978-1-78561-497-2	Confirmed	Control, Robotics & Sensors	£130	\$170
PBCE128	IoT Technologies in Smart-Cities: From sensors to big data, security and trust	Al-Turjman & Imran (Eds)	978-1-78561-870-7	978-1-78561-869-0	Confirmed	Control, Robotics & Sensors (Sensors)	£125	\$160
PBCE120A	Imaging and Sensing for Unmanned Aircraft Systems: Volume 1: Control and Performance	Estrela, Hemanth, Saotomo, Sabatini & Nikolakopoulos (Eds)	978-1-78561-643-3	978-1-78561-642-6	Confirmed	Control, Robotics & Sensors (Sensors)	£120	\$155
PBCE120B	Imaging and Sensing for Unmanned Aircraft Systems: Volume 2: Deployment and Applications	Estrela, Hemanth, Saotomo, Sabatini & Nikolakopoulos (Eds)	978-1-78561-645-7	978-1-78561-644-0	Confirmed	Control, Robotics & Sensors (Sensors)	£110	\$145
PBCS065	MEMS Resonator Filters	Patrikar (Ed)	978-1-78561-897-0	978-1-78561-896-3	Confirmed	Materials, Circuits & Devices	£125	\$160
SBRA525	Autonomous Underwater Vehicles: Design and practice	Ehlers (Ed)	978-1-78561-704-1	978-1-78561-703-4	Confirmed	Radar	£140	\$185
PBPO147	Distribution Systems Analysis and Automation. 2nd Edition	Goss	978-1-78561-872-2	978-1-78561-871-0	Confirmed	Energy Engineering	£125	\$160
PBPO145	Condition Monitoring of Rotating Electrical Machines	Tavner, Inan & Crabtree	978-1-78561-866-6	978-1-78561-865-9	Confirmed	Energy Engineering	£125	\$160
SBRA538A	Theory and Practice of Modern Antenna Range Measurements, 2nd Expanded Edition, Volume 1	Gregson, Parini, McCormick, van Renseberg & Eibert	978-1-83953-127-9	978-1-83953-126-2	Confirmed	Radar	£125	\$160
SBRA538B	Theory and Practice of Modern Antenna Range Measurements, 2nd Expanded Edition, Volume 2	Gregson, Parini, McCormick, van Renseberg & Eibert	978-1-83953-129-3	978-1-83953-128-6	Confirmed	Radar	£145	\$190
PBPO160	Microgrids for Rural Areas: Research and case studies	Chauhan, Chauhan & Singh (Eds)	978-1-78561-999-1	978-1-78561-998-4	Confirmed	Energy Engineering	£115	\$150
PBHE023	Advances in Telemedicine for Health Monitoring: Technologies, design and applications	Rishi, Chhabra & Fraser [Eds]	978-1-78561-987-8	978-1-78561-986-1	Confirmed	Healthcare (eHealth)	£120	\$155
PBHE019	Neurotechnology: Methods, advances and applications	de Albuquerque, Athanasiou & Ribeiro (Eds)	978-1-78561-814-7	978-1-78561-813-0	Confirmed	Healthcare (eHealth)	£120	\$155
SBEW540	Nanoantennas and Plasmonics: Modelling, Design and Fabrication	Werner, Campbell & Kang (Eds)	978-1-78561-838-3	978-1-78561-837-6	Confirmed	Electromagnetics (ACES)	£130	\$170

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PBPO121	Monitoring and Control using Synchrophasors in Power Systems with Renewables	Kamwa & Lu (Eds)	978-1-78561-478-1	978-1-78561-477-4	Confirmed	Energy Engineering	£125	\$160
SBRA533	Radar Waveform Design based on Optimization Theory	Cui, de Maio, Farina & Li (Eds)	978-1-78561-944-1	978-1-78561-943-4	Confirmed	Radar	£120	\$155
PBCE130	Transparency for Robots and Autonomous Systems: Fundamentals, technologies and applications	Wortham	978-1-78561-995-3	978-1-78561-994-6	Confirmed	Control, Robotics & Sensors	£115	\$150
PBCE126	Fault Diagnosis and Fault-tolerant Control of Robotic and Autonomous Systems	Monteriù, Longhi & Freddi (Eds)	978-1-78561-831-4	978-1-78561-830-7	Confirmed	Control, Robotics & Sensors	£120	\$155
PBPO158	Advanced Dielectric Materials for Electrostatic Capacitors	Li (Ed)	978-1-78561-989-2	978-1-78561-988-5	Confirmed	Energy Engineering	£115	\$150
PBHE024	Mobile Technologies for Delivering Healthcare in Remote, Rural or Developing Regions	Ray	978-1-83953-048-7	978-1-83953-047-0	Confirmed	Healthcare (eHealth)	£125	\$160
PBPC033	Edge Computing: Models, technologies and applications.	Taheri & Deng (Eds)	978-1-78561-941-0	978-1-78561-940-3	Confirmed	Computing (Big Data)	£130	\$170
SBEW548	Numerical Methods for Engineering: An introduction using	Warnick	978-1-83953-074-6	978-1-83953-073-9	Confirmed	Electromagnetics	£75	\$95
SBRA531	Micro-Doppler Radar and Its Applications	Fioranelli, Griffiths, Ritchie & Balleri (Eds)	978-1-78561-934-2	978-1-78561-933-5	Confirmed	Radar	£120	\$155
PBCS059	Analysis and Design of CMOS Clocking Circuits For Low Phase Noise	Bae & Jeong	978-1-78561-802-4	978-1-78561-801-7	Confirmed	Materials, Circuits & Devices	£115	\$150
PBPO166	Advanced Characterization of Thin Film Solar Cells	Al-Jassim & Haegel (Eds)	978-1-83953-024-1	978-1-83953-023-4	Confirmed	Energy Engineering	£115	\$150
SBEW528	Advances in Mathematical Methods for Electromagnetics	Kobayashi & Smith (Eds)	978-1-78561-385-2	978-1-78561-384-5	Confirmed	Electromagnetics (ACES)	£145	\$190
PBPO152	Power Electronic Devices: Applications, failure	Ianuzzo (Ed)	978-1-78561-918-2	978-1-78561-917-5	Confirmed	Energy Engineering	£115	\$150
PBCS072	Tensorial analysis of networks (TAN) modelling for PCB signal integrity and EMC analyses	Ravelo & Yu (Ed)	978-1-83953-050-0	978-1-83953-049-4	Planned	Circuits	£125	\$160
SBRA526	Electronic Scanned Array Design	Williams	978-1-78561-930-4	978-1-78561-929-8	Planned	Radar	£120	\$155
PBTE089	Information and Communication Technologies for Humanitarian Services	Islam (Ed)	978-1-78561-997-7	978-1-78561-996-0	Planned	Telecommunications	£125	\$165
PBTE095	Advances in Communications Satellite Systems 2: Proceedings of The 37th International Communications Satellite Systems Conference (ICSSC-2019)	Otung, Butash & Ikegami (Eds)	978-1-83953-146-0	978-1-83953-145-3	Planned	Telecommunications	£115	\$150
PBPO138	Wide Bandgap Semiconductors and their Applications in Power Electronics	Mawby & Ran (Eds)	978-1-78561-744-7	978-1-78561-743-0	Planned	Energy Engineering	£115	\$150
PBHE018	Handbook of Cybersecurity for eHealth	Buchanan & Chute (Eds)	978-1-78561-765-2	978-1-78561-764-5	Planned	Healthcare (eHealth)	£130	\$170
PBPC029	Blockchains for Network Security: Principles, technologies, and applications	Huang, Wang, Wu & Choo (Eds)	978-1-78561-874-1	978-1-78561-873-4	Planned	Computing (Big Data)	£120	\$155
PBPC027	Managing Internet of Things Applications across Edge and Cloud Data Centres	Ranjan, Mitra, Jayaraman & Zomaya (Eds)	978-1-78561-780-5	978-1-78561-779-9	Planned	Computing	£145	\$190
PBHE017	Patient-Centered Healthcare Technology: The Way to Better Health	Goldschmidt & Relova (Eds)	978-1-78561-566-5	978-1-78561-565-8	Planned	Healthcare (eHealth)	£110	\$145
PBTE075	Digital Television Systems: Fundamentals & Broadcast Systems	Mozar & Glasman (Eds)	978-1-78561-251-0	978-1-78561-250-3	Planned	Telecommunications	£120	\$155
PBSE012	Voice Biometrics: Technology, trust and security	Garcia-Mateo & Chollet (Eds)	978-1-78561-901-4	978-1-78561-900-7	Planned	Security (Biometrics)	£115	\$150

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PBTE085	Digital Television Systems: Volume 2: Digital Television Reception	Mozar & Glasman (Eds)	978-1-78561-851-2	978-1-78561-850-5	Planned	Telecommunications	£120	\$155
SBEW546	Propagation Modelling in Railway Environments	Briso (Ed)	978-1-78561-946-5	978-1-78561-945-8	Planned	Electromagnetics	£115	\$150
PBPO116	Modelling and Simulation of HVDC Transmission	Han & Gole (Eds)	978-1-78561-381-4	978-1-78561-380-7	Planned	Energy Engineering	£115	\$145
PBPO135	Matrix Converters: A direct AC/AC power electronic converter technology	Wheeler, Clare, Cardenas & Rivera (Eds)	978-1-78561-649-5	978-1-78561-648-8	Planned	Energy Engineering	£110	\$145
PBTR003	Computational Traffic Flow Modelling and Control	Kotsialos	978-1-78561-167-4	978-1-78561-166-7	Planned	Transportation	£125	\$160
PBPO136	Solar to Hydrogen: Technology and Development of Solar Water Splitting	Muñoz	978-1-78561-692-1	978-1-78561-691-4	Planned	Energy Engineering	£115	\$150
PBTR017	Intelligent Infrastructure for Traffic Monitoring Sensing	Ozaki (Ed)	978-1-78561-775-1	978-1-78561-774-4	Planned	Transportation	£110	\$145
PBPO154	Ancillary Services From Wind Power Plants	Iov (Ed)	978-1-78561-938-0	978-1-78561-937-3	Planned	Energy Engineering	£120	\$155
SBEW541	Radiowave Propagation in Vehicular Environments	Falcone, Azpilicueta, Vargas-Rosales & Alejos	978-1-78561-824-6	978-1-78561-823-9	Planned	Electromagnetics	£125	\$160
SBEW544	Electromagnetic Reverberation Chambers: Recent advances and innovative applications	Andrieu (Ed)	978-1-78561-932-8	978-1-78561-931-1	Planned	Electromagnetics	£110	\$145
PBCS057	Cross-Layer Reliability of Computing Systems	Di Natale, Gizopoulos, Di Carlo, Bosio & Canal (Eds)	978-1-78561-798-0	978-1-78561-797-3	Planned	Materials, Circuits & Devices	£115	\$150
PBTR014	Human Centered Design of Automated Driving Systems	Akamatsu, Kitazaki & Boer (Eds)	978-1-78561-678-5	978-1-78561-677-8	Planned	Transportation	£115	\$150
PBPO103	Performance, Modelling and Reliability of Photovoltaic Systems	Georghiou, Makrides & Phinikarides	978-1-78561-257-2	978-1-78561-256-5	Planned	Energy Engineering	£115	\$150
PBPO164	Lithium-ion Batteries: Testing, modeling, state estimation and smart battery applications	Stroe, Meng & Teodorescu (Eds)	9781839530111	9781839530104	Planned	Energy Engineering	£115	\$150
PBTE088	The Nine Pillars of Technologies for Industry 4.0	Leong, Chuah & Tuan	978-1-83953-006-70	978-1-83953-005-0	Planned	Telecommunications	£125	\$165
PBPC034	AI for Emerging Verticals: Human-robot computing, sensing and networking	Shakir & Ramzan (Eds)	978-1-78561-983-0	978-1-78561-982-3	Planned	Computing	£125	\$160
PBCS056	Integrated Optics	Righini & Ferrari (Eds)	978-1-78561-782-9	978-1-78561-781-2	Planned	Materials, Circuits & Devices	£140	\$180
PBCS066	Frontiers in Hardware Security and Trust: Theory, design and practice	Chang & Cao (Eds)	978-1-78561-928-1	978-1-78561-927-4	Planned	Materials, Circuits & Devices	£115	\$150
SBEW5220	Leaky Waves in Electromagnetics	Burghignoli, Galli, Baccarelli, Lovat & Jackson	978-161353-214-0	978-1-61353-213-3	Planned	Electromagnetics (ISMB)	£120	\$155
PBTR015	Cybersecurity in Transport Systems	Hawley (Ed)	978-1-78561-669-3	978-1-78561-668-6	Planned	Transportation	£120	\$155
PBPO109	Cooling of Rotating Electrical Machines: Fundamentals, Modelling, Testing and Design	Staton, Pickering, Boglietti & Chong	978-1-78561-352-4	978-1-78561-351-7	Planned	Energy Engineering	£110	\$145
PBPO159	Transforming the Grid Towards Fully Renewable Energy	Probst, Palacios & Castellanos (Eds)	978-1-83953-022-7	978-1-83953-021-0	Planned	Energy Engineering	£120	\$155
PBCS036	Handbook of Terahertz Optical Properties of Materials	Naftaly (Ed)	978-1-78561-534-4	978-1-78561-533-7	Planned	Materials, Circuits & Devices	£120	\$155
PBPO144	Photovoltaic Technology for Hot and Arid Environments	Tabet (Ed)	978-1-78561-912-0	978-1-78561-911-3	Planned	Energy Engineering	£110	\$145
PBTR024	Simulators for Evaluation of Human-Machine Interfaces in Assisted and Autonomous Driving	Ito & Hirose (Eds)	9781839530098	9781839530081	Planned	Transportation	£110	\$145

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PBTE092	Flexible and Cognitive Radio Access Technologies for 5G and Beyond	Arslan & Koç (Eds)	978-1-83953-080-7	978-1-83953-079-1	Planned	Telecommunications	£130	\$170
PBPO118	Modelling and Simulation of Complex Power Systems	Monti & Benigni (Eds)	978-1-78561-405-7	978-1-78561-404-0	Planned	Energy Engineering	£125	\$160
PBTE082	Fundamentals, Advances and Applications of Blind Source Separation	Belouchrani & Abed-Meraim	978-1-78561-750-8	978-1-78561-749-2	Planned	Telecommunications	£125	\$160
SBRA529	Deep Neural Network Design for Radar Applications	Gurbuz (Ed)	978-1-78561-853-6	978-1-78561-852-9	Planned	Radar	£125	\$160
SBRA521	Maritime Surveillance with Synthetic Aperture Radar	Di Martino & Iodice (Eds)	978-1-78561-602-0	978-1-78561-601-3	Planned	Radar	£115	\$150
PBPO151	SiC Power Module Design: Performance, robustness and reliability	Castellazzi & Irace (Eds)	978-1-78561-908-3	978-1-78561-907-6	Planned	Energy Engineering	£115	\$150
PBPO114	Lightning-Induced Effects in Electrical and Telecommunication Systems	Baba & Rakov	978-1-78561-354-8	978-1-78561-353-1	Planned	Energy Engineering	£110	\$145
PBTE0620	Resilience in Wireless Networks	Krishnamurthy	978-1-84919-791-5	978-1-84919-790-8	Planned	Telecommunications	£110	\$145
PBTR019	Pedestrian Dynamics: Data, informatics, models, and simulation	Farooq	978-1-78561-840-6	978-1-78561-839-0	Planned	Transportation	£110	\$145
PBTR020	Shared Mobility and Automated Vehicles	Khan & Shaheen (Eds)	978-1-78561-863-5	978-1-78561-862-8	Planned	Transportation	£120	\$155
PBTR018	Collection and Delivery of Traffic and Travel Information	Burton & Stevens (Eds)	978-1-78561-773-7	978-1-78561-772-0	Planned	Transportation	£115	\$150
PBHE022	Control of Prosthetic Hands: Emerging avenues and challenges	Nazarpour (Ed)	978-1-78561-985-4	978-1-78561-984-7	Planned	Healthcare	£115	\$150
PBTE091	Green Communications for Energy-Efficient Wireless Systems and Networks	Suraweera, Yang, Zappone & Thompson (Eds)	978-1-83953-068-5	978-1-83953-067-8	Planned	Telecomms	£125	\$165
PBHE030	Healthcare Technologies for Elderly Populations	Davis (Ed)	978-1-83953-113-2	978-1-83953-112-5	Planned	Healthcare (eHealth)	£120	\$155
PBPO134	Hydrogen Passivation and Laser Doping for Silicon Solar Cells	Hallam & Chan (Eds)	978-1-78561-624-2	978-1-78561-623-5	Planned	Energy Engineering	£110	\$145
PBCS063	Emerging CMOS Capacitive Sensor for Biomedical Applications: A multidisciplinary approach	Ghafar-Zadeh	978-1-78561-916-8	978-1-78561-915-1	Planned	Materials, Circuits & Devices	£115	\$150
SBRA534	Ultra-Wideband Surveillance Radar	Davis	978-1-83953-078-4	978-1-83953-077-7	Planned	Radar	£120	\$155
PBPO153	Signal Processing for Electric Machines Systems Faults Detection and Diagnosis	Benbouzid (Ed)	978-1-78561-958-8	978-1-78561-957-1	Planned	Energy Engineering	£115	\$150
PBPC036	Quantum-inspired Metaheuristics for Data Optimization and Analytics: Theory, approaches, advances, and applications	Bhattacharyya, Hassaniien & Snasel (Ed)	978-1-83953-063-0	978-1-83953-062-3	Planned	Computing (Big Data)	£125	\$165
PBPC038	Pattern Recognition and Machine and Deep Learning for Augmented and Virtual Reality Applications	Sagayam, Henesey, de Albuquerque & Edinbarough [Eds]	978-1-83953-070-8	978-1-83953-069-2	Planned	Computing	£125	\$165
SBRA535	Advanced Sparsity-Driven Models and Methods for Radar Applications	Li	978-1-83953-076-0	978-1-83953-075-3	Planned	Radar	£115	\$150
PBPC039	RRAM-based Machine Learning	Yu, Ni & Dinakarrao	978-1-83953-082-1	978-1-83953-081-4	Planned	Computing	£115	\$150
PBTR026	Traffic Information and Control	Li & He (Eds)	978-1-83953-026-5	978-1-83953-025-8	Planned	Transportation	£115	\$150
PBTE087	Real Time Convex Optimisation for 5G Networks and Industrial IoT: Theory, models, techniques and applications	Duong, Nguyen & Hoang	978-1-78561-960-1	978-1-78561-959-5	Planned	Telecommunications	£115	\$150
SBEW534	Emerging Evolutionary Algorithms for Antennas and Wireless Communications	Goudos	978-1-78561-553-5	978-1-78561-552-8	Planned	Electromagnetics	£110	\$145

