



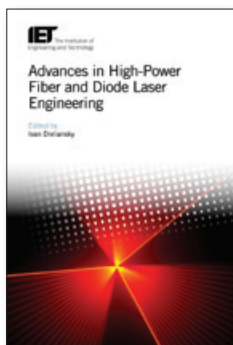
IET Books and eBooks

Materials, Circuits & Devices

Advances in High-Power Fiber and Diode Laser Engineering

Editor: Ivan Divliansky, University of Central Florida, USA

Written by a team of authors with experience in academia and industry, and brought together by an expert editor with a dual background in electrical engineering and materials science, this book is for engineers in laser systems development at the laboratory or commercial scale. The book covers fiber and diode laser systems from academic and industrial perspectives, discusses the latest trends in high-power fiber laser development and applications, offers an overview of developments in diode laser systems, and addresses advanced applications of high-power lasers.



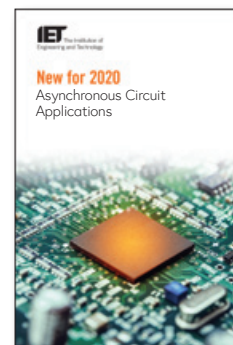
2019 / 350pp / £120 / \$155
Print PBCS0540 / 978-1-78561-751-5
eBook PBCS054E / 978-1-78561-752-2

NEW

Asynchronous Circuit Applications

Editors: Jia Di & Scott Smith, University of Arkansas, USA & North Dakota State University, USA

Taking an application-focused approach, the book helps to bridge the gap between laboratory and commercial scale research and development of asynchronous circuits. Each application is accompanied by the corresponding circuit design theory, sample circuit implementations, results and analysis. The book is ideal for academic researchers and students looking to broaden their thinking in asynchronous applications and design methodologies, and for engineers looking for practical guidance when considering the incorporation of asynchronous circuits into commercial applications.

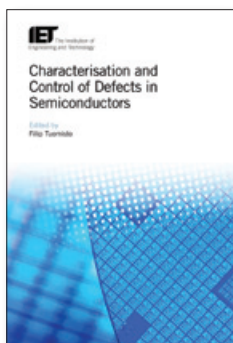


2020 / 350pp / £120 / \$155
Print PBCS0610 / 978-1-78561-817-8
eBook PBCS061E / 978-1-78561-818-5

Characterisation and Control of Defects in Semiconductors

Editor: Filip Tuomisto, Aalto University, Finland

An up-to-date review of the experimental and theoretical methods used for studying defects in semiconductors, this book focuses on recent developments driven by the requirements of new materials, including nitrides, oxide semiconductors and 2-D semiconductors. Written by an international team, and edited by a highly regarded researcher in the field, the book provides thorough coverage of a variety of characterisation techniques and suggests methods for controlling the defects and hence the properties of semiconductors.



2019 / 500pp / £130 / \$170
Print PBCS0450 / 978-1-78561-655-6
eBook PBCS045E / 978-1-78561-656-3

Design of Terahertz CMOS Integrated Circuits for High-Speed Wireless Communication

Authors: Minoru Fujishima & Shuhei Amakawa, Hiroshima University, Japan

The book is the first to describe recent research on terahertz CMOS design for high-speed wireless communication in the post-5G world. The topics covered include fundamental technologies for terahertz CMOS design; theory and practical examples of building blocks; transceiver architectures; considerations for 300GHz-band communications; and future prospects. Written by leading names in the field, this is a vital resource for researchers and professional circuit designers working in RFIC and CMOS design for telecommunications.



2019 / 224pp / £110 / \$145
Print PBCS0350 / 978-1-78561-387-6
eBook PBCS035E / 978-1-78561-388-3

Digitally Enhanced Mixed Signal Systems

Editors: Chadi Jabbour et al.,
University of Bordeaux, France

Edited by three leading names in the field, this book discusses how digitally enhanced analogue and mixed signal techniques can be used to address challenges of shrinking CMOS technology. The book introduces the main trends in current digitally enhanced systems, and gives a discussion of the impact of shrinking technology, as well as an overview of the principles of non-linear models. The book then discusses predistortion and post-distortion techniques, analogue-to-digital and digital-to-analogue converters, I/Q mismatches in direct conversion transceivers, and clock generation.

2019 / 384pp / £120 / \$155

Print PBCS0400 / 978-1-78561-609-9

eBook PBCS040E / 978-1-78561-610-5



Fibre Bragg Gratings in Harsh and Space Environments: Principles and applications

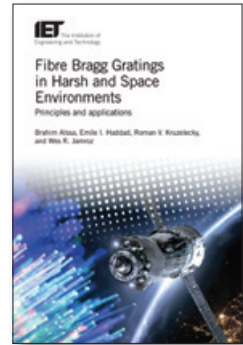
Authors: Aissa, Haddad,
Kruzelecky & Jamroz

This book addresses the critical challenge of developing novel and efficient Fibre Bragg Gratings for applications that require operation in harsh environments. Coverage ranges from basic principles through design, fabrication, and testing to the industrial implementation of high temperature and radiation-resistant optical fibres, with performance optimisation being a key theme.

2019 / 232pp / £110 / \$145

Print PBCS0690 / 978-1-78561-980-9

eBook PBCS069E / 978-1-78561-981-6



High Quality Liquid Crystal Displays and Smart Devices

Volume 1: Development, display applications and components

Volume 2: Surface alignment, new technologies and smart device applications

Editors: Shoichi Ishihara,
Osaka Institute of Technology,
Japan ; Shunsuke Kobayashi,
Tokyo University of Agriculture
and Technology, Japan ;
Yasuhiro Ukai, Ukai Display Device Institute, Japan

This two-volume set discusses the latest developments in liquid crystal display (LCD) technologies, celebrating 50 years since they were first demonstrated. There is a particular focus on display quality such as image sticking, contrast ratio and colour hue, while current and future trends in materials and technologies are discussed in detail. Volume 1 provides a review of the development of the technology and details display applications and technical aspects of key components. Volume 2 covers surface alignment issues, new technologies and smart device applications.

Vol 1: 2019 / 416pp / £120 / \$155

Print PBCS068A / 978-1-78561-925-0

eBook PBCS068F / 978-1-78561-926-7

Vol 2: 2019 / 408pp / £120 / \$155

Print PBCS068B / 978-1-78561-923-6

eBook PBCS068G / 978-1-78561-924-3

Set: 2019 / £190 / \$250

Print PBCS068X / 978-1-78561-939-7



IP Core Protection and Hardware-Assisted Security for Consumer Electronics

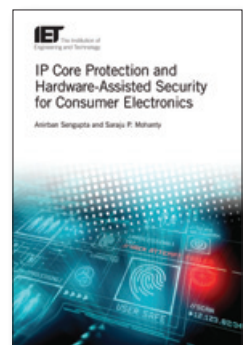
Authors: Anirban Sengupta &
Saraju Mohanty, Indian Institute
of Technology, India & University
of North Texas, USA

This book addresses hardware protection (especially DSP cores) in consumer electronics, plus the potential security threats from intervention in the consumer electronics design supply chain, and how such threats can be circumvented. Supply chain security solutions covered include hardware watermarking, hardware fingerprinting, symmetrical IP core protection, hardware metering, computational forensic engineering for IP core protection and various forms of hardware obfuscation.

2019 / 552pp / £135 / \$175

Print PBCS0600 / 978-1-78561-799-7

eBook PBCS060E / 978-1-78561-800-0



Magnetorheological Materials and their Applications

Editors: Seung-Bok Choi & Weihua Li, Inha University, South Korea & University of Wollongong, Australia

This title addresses the hot topic of magneto-rheological (MR) materials in the field of smart materials research. The book introduces three MR materials: magneto-rheological fluids, magneto-rheological elastomers and a newly developed magneto-rheological plastomer, and explores their material properties, related modelling techniques and applications. The book offers insights into the relationships between the properties and characterisation of MR materials and their current and future applications, making it valuable reading for researchers, engineers and graduate students who work in the field of smart materials and structures.

2019 / 448pp / £125 / \$165

Print PBCS0580 / 978-1-78561-770-6

eBook PBCS058E / 978-1-78561-771-3



Radio Frequency and Microwave Power Amplifiers

Volume 1: Principles, device modeling and matching networks

Volume 2: Efficiency and linearity enhancement techniques

Editor: Andrei Grebennikov, Sumitomo Electric Europe Ltd, UK

Radio Frequency and Microwave Power Amplifiers are finding an increasingly broad range of applications, particularly in communications and broadcasting, but also in the industrial, medical, automotive, aviation, military, and sensing fields. Each application has its own design specifications. Written by experts in the field, this 2 volume set aims to provide comprehensive, state-of-the-art coverage of RF and microwave power amplifier design with in-depth descriptions of current and potential future approaches.

Vol 1: 2019 / 586pp / £135 / \$175

Print PBCS071A / 978-1-83953-036-4

eBook PBCS071F / 978-1-83953-037-1

Vol 2: 2019 / 500pp / £130 / \$170

Print PBCS071B / 978-1-83953-038-8

eBook PBCS071G / 978-1-83953-039-5

Set: 2019 / £x / \$275

Print PBCS071X / 978-1-83953-040-1



RF and Microwave Module Level Design and Integration

Author: Mohammad J. Almalkawi, University of Toledo, USA

Describes the design and development of modern multi-chip RFIC modules. The book starts with a comprehensive introduction to the basic elements of RFIC modules, followed by an examination of system-level concepts and measures that can be applied to real-world designs. With a strong emphasis on design and integration, the book also gives practical solutions to commonly encountered challenges in RF multi-chip modules, including system integration, network loss-reduction, electromagnetic compatibility, crosstalk reduction, computer-aided design and methodologies, and system-level performance via common RF measurements.

2019 / 360pp / £120 / \$155

Print PBCS0340 / 978-1-78561-359-3

eBook PBCS034E / 978-1-78561-360-9



Self-Healing Materials: From fundamental concepts to advanced space and electronics applications

2nd Edition

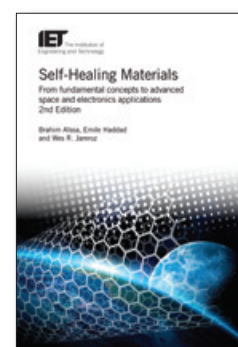
Authors: Brahim Aïssa, Emile I. Haddad and Wes R. Jamroz, MPB Communications Inc., Canada

Self-healing materials are an emerging class of smart materials that repair themselves from damage, either spontaneously or under a stimulus such as light, heat, or the application of a solvent. Intended for an audience of researchers in academia and industry, this revised, expanded and updated second edition addresses the key concepts of self-healing processes, from their occurrences in nature through to recent advances in academic and industrial research, with emphasis on their performance in the space environment.

2019 / 240pp / £110 / \$145

Print PBCS0700 / 978-1-78561-992-2

eBook PBCS070E / 978-1-78561-993-9

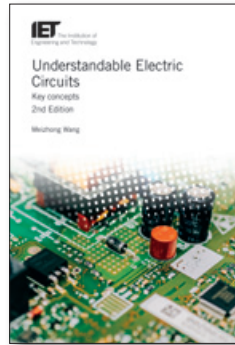


Understandable Electric Circuits: Key concepts

2nd edition

Author: Meizhong Wang, College of New Caledonia, Canada

This book offers a thorough reference guide to the theory, elements and design of basic electronic circuits, providing a solid foundation for those who plan to move into the field of electronics engineering, and essential information for anyone who uses electronic circuitry in their profession or research. This fully revised, expanded and updated new edition contains new chapters as well as additional new content that builds on existing coverage from the successful first edition.



2019 / 456pp / £120 / \$155

Print PBCS0470 / 978-1-78561-697-6

eBook PBCS047E / 978-1-78561-698-3

VLSI Architectures for Future Video Coding

Editor: Maurizio Martina, Politecnico di Torino, Italy

This book examines future video coding from the perspective of hardware implementation and architecture design. The book identifies challenges in deploying VLSI architectures for video coding and postulates potential solutions with reference to recent research. It also includes an overview of the designs, techniques and paradigms likely to be exploited in the design of VLSI architectures for future video-coding systems. This is an important resource for academics and industry professionals working on VLSI implementation of video codecs, algorithms and high-level systems for video compression.



2019 / 300pp / £115 / \$145

Print PBCS0530 / 978-1-78561-710-2

eBook PBCS053E / 978-1-78561-711-9

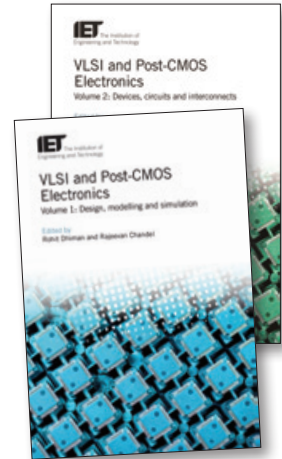
VLSI and Post-CMOS Electronics

Volume 1: Design, modelling and simulation

Volume 2: Materials, devices and interconnects

Editors: Rohit Dhiman and Rajeevan Chandel, National Institute of Technology Hamirpur, India

This 2-volume set is a useful reference guide for researchers, engineers and advanced students working in the area of design and modelling of VLSI and post-CMOS devices and their circuits. Wide ranging coverage includes low-voltage low-power VLSI design, through silicon via interconnects for 3D integration, modelling and simulation for post-CMOS device and circuit design, high-performance compound semiconductor devices and applications, process variability in FinFETs, and other novel and emerging technologies.



Vol 1: 2019 / 346pp / £120 / \$155

Print PBCS073A / 978-1-83953-051-7

eBook PBCS073F / 978-1-83953-052-4

Vol 2: 2019 / 388pp / £120 / \$155

Print PBCS073B / 978-1-83953-053-1

eBook PBCS073G / 978-1-83953-054-8

Set: 2019 / £190 / \$250

Print PBCS073X / 978-1-83953-055-5

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to be published in 2020 and 2021

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Analysis and Design of CMOS Clocking Circuits For Low Phase Noise	Bae & Jeong	£115.00	\$150.00	978-1-78561-801-7	978-1-78561-802-4	PBCS059
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Handbook of Terahertz Optical Properties of Materials	Naftaly (Ed)	£120.00	\$155.00	978-1-78561-533-7	978-1-78561-534-4	PBCS036
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High Quality Liquid Crystal Displays and Smart Devices Volume 1: Development, display applications and components	Ishihara, Kobayashi and Ukai (Eds)	£120.00	\$155.00	978-1-78561-925-0	978-1-78561-926-7	PBCS068A

Title	Author(s)/Editor(s)	Price (£)	Price (\$)	ISBN	eISBN	Product code
High Quality Liquid Crystal Displays and Smart Devices Volume 2: Surface alignment, new technologies and smart device applications	Ishihara, Kobayashi and Ukai (Eds)	£120.00	\$155.00	978-1-78561-923-6	978-1-78561-924-3	PBCS068B
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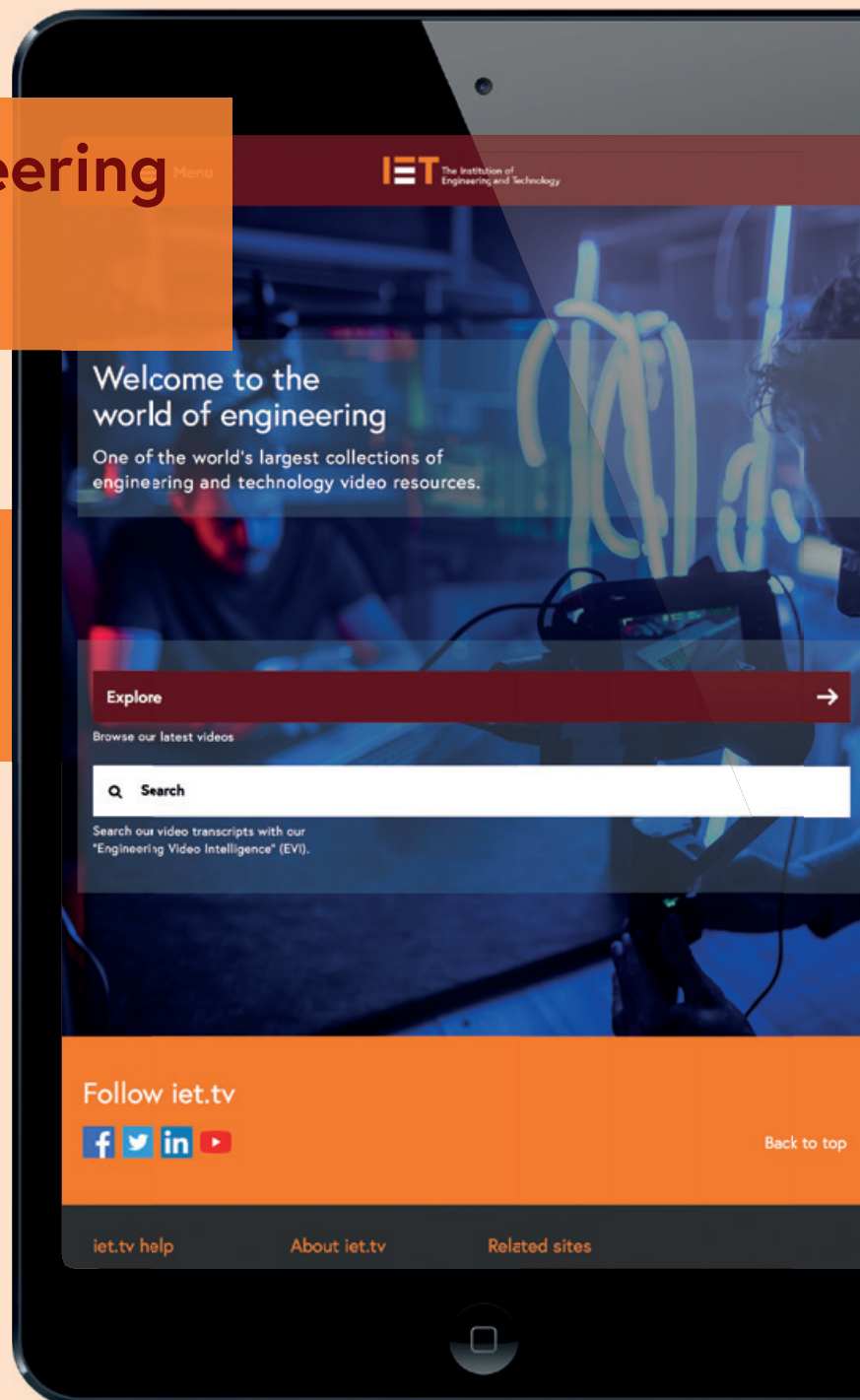
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