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Electromagnetic Waves

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Electromagnetic Waves

HIGHLIGHTS

Advances in Mathematical Methods for Electromagnetics

Editors: Kazuya Kobayashi, Chuo University, Japan; Paul Denis Smith, Macquarie University, Australia

This book covers recent achievements in the area of advanced analytical and associated numerical methods as applied to various problems arising in all branches of electromagnetics. The unifying theme is the application of advanced or novel mathematical techniques to produce analytical solutions or effective analytical-numerical methods for computational electromagnetics addressing more general problems.

The ACES Series on Computational Electromagnetics and Engineering

2020 / 700pp / £145 / $190
Print SBEW5280 / 978-1-78561-384-5
eBook SBEW528E / 978-1-78561-385-2

Electromagnetic Reverberation Chambers: Recent advances and innovative applications

Editor: Guillaume Andrieu, University of Limoges, France

This book contains state of the art information about a novel range of applications for electromagnetic reverberation chambers. Topics covered include over-the-air testing of wireless devices, characterization of antenna efficiency, the most popular stirring techniques for broadband EMC and radar cross section estimation in reverberation chambers.

2020 / 250pp / £110 / $145
Print SBEW5440 / 978-1-78561-931-1
eBook SBEW544E / 978-1-78561-932-8

Nanoantennas and Plasmonics: Modelling, Design and Fabrication

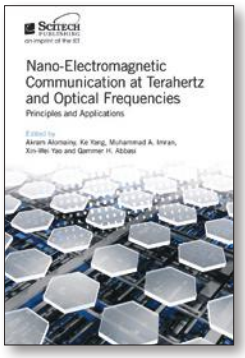
Editors: Douglas H. Werner, Penn State University, USA; Sawyer D. Campbell, Penn State University, USA; Lei Kang, Penn State University, USA

This book presents cutting-edge research advances in the rapidly growing areas of nanoantennas and plasmonics as well as their related enabling technologies and applications.

The ACES Series on Computational Electromagnetics and Engineering

2020 / 500pp / £125 / $165
Print SBEW5400 / 978-1-78561-837-6
eBook SBEW540E / 978-1-78561-838-3

Nano-Electromagnetic Communication at Terahertz and Optical Frequencies: Principles and applications



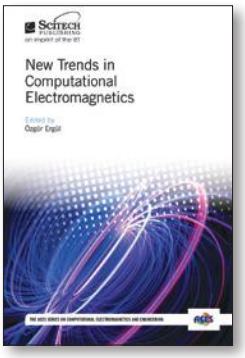
Editors: Akram Alomainy, Queen Mary University of London, UK; Ke Yang, Queen Mary University of London, UK; Qammer H. Abbasi, University of Glasgow, UK; Muhammad Ali Imran, University of Glasgow, UK; Xin-Wei Yao, Zhejiang University of Technology, China

Recent advancements in carbon and molecular electronics have opened the door to a new generation of electronic nanoscale components. This book outlines the basic principles of electromagnetic-based communication at this nanoscale using terahertz and optical frequencies with a focus on theoretical principles and applications.

2019 / 224pp / £110 / $145
Print SBEW5420 / 978-1-78561-903-8
eBook SBEW542E / 978-1-78561-904-5

HIGHLIGHTS

New Trends in Computational Electromagnetics



Editor: Özgür Ergül, Middle East Technical University (METU), Ankara, Turkey

The authors present a broad overview of the recent efforts in computational electromagnetics to develop and implement more robust, accurate and efficient algorithms. With the recent improvement in available computing power, this is a timely overview of a rapidly developing subject.

The ACES Series on Computational Electromagnetics and Engineering

2019 / 708pp / £145 / $190
Print SBEW5330 / 978-1-78561-548-1
eBook SBEW533E / 978-1-78561-549-8

Radiowave Propagation in Vehicular Environments

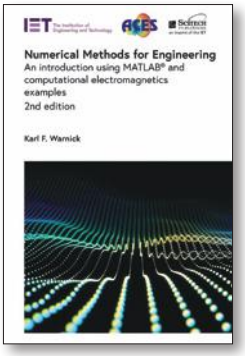
Leyre Azpilicueta, Tecnologico de Monterrey, Mexico; Cesar Vargas-Rosales, Tecnologico de Monterrey, Mexico; Francisco Falcone, Public University of Navarre, Spain; Ana Vazquez Alejos, University of Vigo, Spain

This book covers radio wave propagation in the vehicular environment. It comes at a timely moment in the development of connected and automated vehicles, as they move from concept and system design studies to actual demonstrations and pilot projects.

2020 / 400pp / £125 / $160
Print SBEW5410 / 978-1-78561-823-9
eBook SBEW541E / 978-1-78561-824-6

Numerical Methods for Engineering: An introduction using MATLAB and computational electromagnetics examples

2nd Edition



Author: Karl Warnick, Brigham Young University, USA

The revised and updated second edition of this textbook teaches students to create modeling codes used to analyze, design, and optimize structures and systems used in wireless communications, microwave circuits, and other applications of electromagnetic fields and waves. Worked code examples are provided for key algorithms using the MATLAB technical computing language.

The ACES Series on Computational Electromagnetics and Engineering

2020 / 350pp / £75 / $95
Print SBEW5480 / 978-1-83953-073-9
eBook SBEW548E / 978-1-83953-074-6

Theory and Practice of Modern Antenna Range Measurements

2nd Expanded Edition
Volume 1
Volume 2

Authors: Clive Parini, Queen Mary University of London, UK; Stuart Gregson, Queen Mary University of London, UK; John McCormick, Leonardo MW, UK; Daniël Janse van Rensburg, NSI-MI Technologies, USA; Thomas Eibert, University of Munich, Germany

This new greatly expanded two-volume edition of this popular text provides a comprehensive introduction and explanation of both the theory and practice of modern antenna measurements, from their most basic postulates and assumptions, to the intricate details of their applications in various demanding modern measurement scenarios. Extensive examples illustrate the concepts and techniques covered. This second edition is thoroughly expanded and now includes new chapters on near-field to far-field transforms from non-canonical surfaces, electromagnetic modelling of CATRs and near-field antenna measurement systems. In addition, there is an expanded chapter on coordinate systems, polarization basis and antenna pattern plotting and new sections on more specialized topics such as 5G and Radome measurements.

Vol 1: 2020 / 424pp / £125 / $165
Print SBRA538A / 978-1-83953-126-2
eBook SBRA538F / 978-1-83953-127-9

Vol 2: 2020 / 693pp / £145 / $190
Print SBRA538B / 978-1-83953-128-6
eBook SBRA538G / 978-1-83953-129-3

Set: 2020 / £215 / $285
Print SBRA538X / 978-1-83953-130-9

Electromagnetic Waves

FORTHCOMING - to be published in 2021 and 2022

Title	Author(s)/Editor(s)	Price (£)	Price ($)	ISBN	eISBN	Product code
Advanced Numerical Methods for Time-Dependent Electromagnetic Applications	Kantartzis, Zygiridis & Tsiboukis (Eds)	£125	$165	978-1-78561-396-8	978-1-78561-397-5	SBEW532
Advanced Time Domain Modelling for Electrical Engineering [1]	Araneo (Ed)	£135	$175	978-1-83953-153-8	978-1-83953-154-5	SBEW550
Beamforming Techniques in Microwave Power Transmission	Wang & Lu	£115	$150	978-1-78561-803-1	978-1-78561-804-8	SBEW539
Cable Construction and Shielding Termination Techniques for Control of EM Interference	Scully	£120	$155	978-1-78561-935-9	978-1-78561-936-6	SBEW547
Computational Electromagnetics for Modelling of Metamaterials [1]	Uno, Michishita & Arima	£125	$160	978-1-78561-805-5	978-1-78561-806-2	SBEW538
Higher Order Methods in Computational Electromagnetics [1]	Notaros	£130	$170	978-1-78561-964-9	978-1-78561-965-6	SBEW545
Integral Equation Methods for Solving Wave Equations : Analytical and engineering aspects	Bleszynski, Blezynski & Jaroszewicz	£115	$150	978-1-78561-777-5	978-1-78561-778-2	SBEW536
Leaky Waves in Electromagnetics [2]	Burghignoli, Galli, Baccarelli, Lovat & Jackson	£120	$155	978-1-61353-213-3	978-1-61353-214-0	SBEW522
Light Filaments: Structures, Challenges and Applications	Diels, Richardson & Arissian (Eds)	£125	$165	978-1-78561-240-4	978-1-78561-241-1	SBEW527
Low Frequency Magnetic Fields: Design, Modelling and Characterization [1]	Formisano	£120	$155	978-1-83953-151-4	978-1-83953-152-1	SBEW551
Near Vertical Incidence Skywaves	Witvliet	£130	$170	978-1-78561-519-1	978-1-78561-520-7	SBEW530
Non-redundant Near-Field to Far-Field Transformation Techniques [1]	D'Agostino, Ferrara, Gennarelli & Guerriero	£115	$150	978-1-83953-141-5	978-1-83953-142-2	SBEW549
Propagation Modelling in Railway Environments	Briso (Ed)	£115	$150	978-1-78561-945-8	978-1-78561-946-5	SBEW546
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Uncertainty Quantification of Electromagnetic Devices, Circuits, and Systems [1]	Roy (Ed)	£110	$145	978-1-83953-171-2	978-1-83953-172-9	SBEW552

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Advances in Mathematical Methods for Electromagnetics [1]	Kobayashi & Smith (Eds)	£145	$190	978-1-78561-384-5	978-1-78561-385-2	SBEW528	2020
Electromagnetic Reverberation Chambers: Recent advances and innovative applications	Andrieu (Ed)	£110	$145	978-1-78561-931-1	978-1-78561-932-8	SBEW544	2020
Nanoantennas and Plasmonics: Modelling, Design and Fabrication [1]	Werner, Campbell & Kang (Eds)	£125	$165	978-1-78561-837-6	978-1-78561-838-3	SBEW540	2020
Numerical Methods for Engineering: An introduction using MATLAB and computational electromagnetics examples. 2nd Edition [1]	Warnick	£75	$95	978-1-83953-073-9	978-1-83953-074-6	SBEW548	2020
Radiowave Propagation in Vehicular Environments	Azpilicueta, Vargas-Rosales, Falcone and Alejos	£125	$160	978-1-78561-823-9	978-1-78561-824-6	SBEW541	2020
Theory and Practice of Modern Antenna Range Measurement. 2nd Expanded Edition (2-volume set)	Gregson, Parini, McCormick, van Renseberg & Eibert	£215	$285	978-1-83953-130-9	N/A	SBRA538X	2020
Theory and Practice of Modern Antenna Range Measurements. 2nd Expanded Edition. Volume 1	Gregson, Parini, McCormick, van Renseberg & Eibert	£125	$165	978-1-83953-126-2	978-1-83953-127-9	SBRA538A	2020
Theory and Practice of Modern Antenna Range Measurement. 2nd Expanded Edition. Volume 2	Gregson, Parini, McCormick, van Renseberg & Eibert	£145	$190	978-1-83953-128-6	978-1-83953-129-3	SBRA538B	2020
Advances in Planar Filters Design	Hong (Ed)	£125	$165	978-1-78561-589-4	978-1-78561-590-0	SBEW535	2019
Nano-Electromagnetic Communication at Terahertz and Optical Frequencies: Principles and applications	Alomainy, Yang, Imran, Yao & Abbasi (Eds)	£110	$145	978-1-78561-903-8	978-1-78561-904-5	SBEW542	2019
New Trends in Computational Electromagnetics [1]	Ergül (Ed)	£145	$190	978-1-78561-548-1	978-1-78561-549-8	SBEW533	2019
Post-processing Techniques in Antenna Measurement	Castañer & Foged (Eds)	£110	$145	978-1-78561-537-5	978-1-78561-538-2	SBEW529	2019
Developments in Antenna Analysis and Design: Volume 1	Mittra (Ed)	£125	$165	978-1-78561-888-8	978-1-78561-889-5	SBEW543A	2018
Developments in Antenna Analysis and Design: Volume 2	Mittra (Ed)	£125	$165	978-1-78561-890-1	978-1-78561-891-8	SBEW543B	2018
Developments in Antenna Analysis and Design (2-vol set)	Mittra (Ed)	£200	$260	978-1-78561-892-5	N/A	SBEW543X	2018
Slotted Waveguide Array Antennas [2]	Rangarajan & Josefsson	£125	$160	978-1-61353-189-1	978-1-61353-190-7	SBEW517	2018
Adjoint Sensitivity Analysis of High Frequency Structures with MATLAB® [1]	Bakr, Elsherbeni & Demir	£95	$150	978-1-61353-231-7	978-1-61353-232-4	SBEW525	2017
Scattering of Electromagnetic Waves by Obstacles [2]	Kristenssen	£95	$149	978-1-61353-221-8	978-1-61353-222-5	SBEW524	2016

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