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Titolo	Guided-Wave Optics / / edited by Boris Malomed
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Nota di contenuto	About the Special Issue Editor -- Boris A. Malomed Editorial: Guided-Wave Optics Reprinted from: Appl. Sci. 2017 -- Orazio Descalzi and Carlos Cartes Stochastic and Higher-Order Effects on Exploding Pulses Reprinted from: Appl. Sci. 2017 -- Sheng-Chih Yang, Yue-Jing He and Yi-Jyun Wun Designing a Novel High-Performance FBG-OADM Based on Finite Element and Eigenmode Expansion Methods Reprinted from: Appl. Sci. 2017 -- Kihwan Moon, Tae-Woo Lee, Young Jin Lee and Soon-Hong Kwon A Metal-Insulator-Metal Deep Subwavelength Cavity Based on Cutoff Frequency Modulation Reprinted from: Appl. Sci. 2017 -- Evgeny N. Bulgakov, Almas F. Sadreev and Dmitrii N. Maksimov Light Trapping above the Light Cone in One-Dimensional Arrays of Dielectric Spheres Reprinted from: Appl. Sci. 2017 -- Jennie D'Ambroise and Panayotis G. Kevrekidis Existence, Stability and Dynamics of Nonlinear Modes in a 2D PartiallyPT Symmetric Potential Reprinted from: Appl. Sci. 2017 -- Zhijie Mai, Haitao Xu, Fang Lin, Yan Liu, Shenhe Fu and Yongyao Li Dark Solitons and Grey Solitons in Waveguide Arrays with Long-Range Linear Coupling Effects Reprinted from: Appl. Sci. 2017 -- Jorge Fujioka, Alfredo Gomez-Rodriguez and Aurea Espinosa-Ceron Pulse Propagation Models with Bands of Forbidden Frequencies or Forbidden Wavenumbers: A Consequence of Abandoning the Slowly Varying Envelope Approximation and Taking into Account Higher-Order Dispersion Reprinted from: Appl. Sci. 2017 -- Yiqi Zhang, Hua

Zhong, Milivoj R. Belic and Yanpeng Zhang Guided Self-Accelerating Airy Beams-A Mini-Review Reprinted from: Appl. Sci. 2017 -- Garyfallia C. Katsimiga, Jan Stockhofe, Panagiotis G. Kevrekidis and Peter Schmelcher Stability and Dynamics of Dark-Bright Soliton Bound States Away from the Integrable Limit Reprinted from: Appl. Sci. 2017 -- Pedro Rodriguez, Jesus Jimenez, Thierry Guillet and Thorsten Ackemann Polarization Properties of Laser Solitons Reprinted from: Appl. Sci. 2017 -- Masanobu Iwanaga Perfect Light Absorbers Made of Tungsten-Ceramic Membranes Reprinted from: Appl. Sci. 2017 -- Valerio Mazzone, Juan Sebastian Totero Gongora and Andrea Fratalocchi Near-Field Coupling and Mode Competition in Multiple Anapole Systems Reprinted from: Appl. Sci. 2017 -- Yikun Liu, Shenhe Fu, Boris A. Malomed, Iam Choon Khoo and Jianying Zhou Ultrafast Optical Signal Processing with Bragg Structures Reprinted from: Appl. Sci. 2017 -- Hiu Ning Chan and Kwok Wing Chow Rogue Wave Modes for the Coupled Nonlinear Schrodinger System with Three Components: A Computational Study Reprinted from: Appl. Sci. 2017 -- Faisal Ahmed Memon, Francesco Morichetti and Andrea Melloni Waveguiding Light into Silicon Oxycarbide Reprinted from: Appl. Sci. 2017 -- Jose Delfino Huerta Morales and Blas Manuel Rodriguez-Lara Photon Propagation through Linearly Active Dimers Reprinted from: Appl. Sci. 2017 -- Manon Lamy, Christophe Finot, Julien Fatome, Juan Arocas, Jean-Claude Weeber and Kamal Hammani Demonstration of High-Speed Optical Transmission at 2 µm in Titanium Dioxide Waveguides Reprinted from: Appl. Sci. 2017 -- Fedor Mitschke, Christoph Mahnke and Alexander Hause Soliton Content of Fiber-Optic Light Pulses Reprinted from: Appl. Sci. 2017 -- Cid B. de Araujo, Anderson S. L. Gomes and Ernesto P. Raposo Levy Statistics and the Glassy Behavior of Light in Random Fiber Lasers Reprinted from: Appl. Sci. 2017 -- Arjunan Govindarajan, Boris A. Malomed, Arumugam Mahalingam and Ambikapathy Uthayakumar Modulational Instability in Linearly Coupled Asymmetric Dual-Core Fibers Reprinted from: Appl. Sci. 2017.

Sommario/riassunto

The topic of guided wave (GW) propagation comprises a vast research area overlapping with photonics, matter waves in macroscopic quantum media (ultracold gases of bosonic and fermionic atoms, condensates of quasiparticles, such as excitons-polaritons, magnons, and cavity photons), hydrodynamics, acoustics, plasma physics, etc. In many situations, tightly confined GWs naturally acquire high amplitudes, which gives rise to a plenty of fascinating nonlinear effects. In particular, waveguides often provide a combination of nonlinearity, group-velocity dispersion, and low losses which is necessary for the creation of solitons (robust solitary waves). In optics, experimental and theoretical work with GWs is a vast research area, with great significance both for fundamental studies and numerous applications, which are realized in linear and nonlinear forms alike, including long-haul telecommunications, all-optical data-processing schemes, and generation of powerful laser beams, especially in fiber lasers. More recently, new artificially created optical media have been made available, such as photonic crystals, metamaterials, photonic topological insulators, PT-symmetric waveguides, and others, which opens a way to implement GW propagation regimes with features that were not known previously - e.g., the propagation immune to scattering on defects, or light diodes, admitting strictly unidirectional transmission. Closely related to optical waveguides are their plasmonic counterparts, which admit the implementation of the GW transmission on much smaller scales, by using surface-plasmon-polaritonic waves with small wavelengths. Completely new perspectives for the exploration and application of GWs emerge in the area of

nanophotonics, with the guided propagation carried out in photonic nanowires whose confinement length is essentially smaller than the optical wavelength.

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Titolo	Flexible multi-tier dispute resolution in international tax disputes / / editors, Pasquale Pistone, Jan J.P. de Goede
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Livello bibliografico	Monografia
Nota di contenuto	Chapter 1: Flexible multi-tier dispute resolution : the Croatian experience / Zunic Kovacevic, N. Gadzo, S. Klemencic, I. ; ; p. 3-21 Chapter 2: Flexible multi-tier dispute resolution : the German experience / Seer, R. Wilms, A.L. ; ; p. 23-40 Chapter 3: The use of a third person other than a court in order to deal with tax disputes : the Greek experience / Perrou, K. ; ; p. 43-52 Chapter 4: The Settlement Commission in the Indian experience / Sengupta, D.P. ; ; p. 53-67 Chapter 5: Tax mediation in Belgium and the Netherlands / Hensen, W. Hout, M.B.A. van ; ; p. 71-97 Chapter 6: Tax mediation in New Zealand, Australia and the United Kingdom / Jone, M. ; ; p. 99-137 Chapter 7: Tax mediation in Mexico / Uribe Guerrero, E. ; ; p. 139-149 Chapter 8: Tax mediation in the United States / Brauner, Y. ; ; p. 151-165 Chapter 9: Can mediation improve (the efficiency of) the MAP? / Groper, J. ; ; p. 169-181

Chapter 10: Mediation : the Swiss army knife in the competent authority?s toolbox / Brown, P.A. ; ; p. 183-195
Chapter 11: Using mediation for the resolution of cross-border tax disputes / Perrou, K. ; ; p. 197-210
Chapter 12: A negotiator, not a judge : choosing the right mediator to aid in resolving cross border tax disputes / Brown, P.A. ; ; p. 211-225
Chapter 13: The inception of a mediation system in Brazil for resolution of disputes in international tax law / Polizelli, V. Borges ; ; p. 227-250
Chapter 14: MAP arbitration in tax treaty disputes / Mooij, H. ; ; p. 253-287
Chapter 15: Judicial systems and international tax disputes : the view from India / Sengupta, D.P. ; ; p. 289-315
Chapter 16: Baseball arbitration : the trendiest alternative dispute resolution mechanism in international taxation / Neto, L.F. ; ; p. 317-347
Chapter 17: The EU Directive on tax dispute resolution mechanisms in the European Union : a flexible but still perfectible tool for resolving international tax disputes / Ronco, S.M. ; ; p. 349-419
Chapter 18: Summary of findings / Hout, M.B.A. van ; ; p. 423-482
Chapter 19: The flexible multi-tier dispute resolution framework and our final conclusions and recommendations / Pistone, P. Goede J.J.P. de ; ; p. 483-522

Sommario/riassunto

This book contains the output of the collaborative research project "Flexible Multi-Tier Dispute Resolution in International Tax Disputes", which has brought together researchers from 11 countries and 10 partner institutions under the coordination of IBFD Academic. This book is the first of its kind to abridge the whole phenomenon of cross-border tax disputes, from their prevention to their settlement. The book is structured along the lines of the key articulations of the flexible multi-tier dispute resolution theoretical model and provides contributions ranging from the prevention of tax disputes drawn from selected domestic experiences, addressed in Part 1, to the facilitation of the settlement by a third party, addressed in Part 2. In this regard, Part 2 focuses, in particular, on the use of mediation in the domestic tax context in several countries as well as on the possible prospects, from a policy angle, of the use of mediation in cross-border settings. Part 3 of the book contains contributions regarding models relying on the actual settlement of tax disputes by a third party, providing a critical analysis of the recent developments in the use of arbitration in tax treaty disputes and to the currently applicable EU international tax dispute resolution framework.