Optical Communication over Plastic Optical Fibers

Integrated Optical Receiver Technology

This book presents high-performance data transmission over plastic optical fibers (POF) using integrated optical receivers having good properties with multilevel modulation, i.e. a higher sensitivity and higher data rate transmission over a longer plastic optical fiber length. Integrated optical receivers and transmitters with high linearity are introduced for multilevel communication.

Features

- Presents the basics and the state-of-the-art of high data rate transmission of plastic optical fibers
- Gives a contribution to multilevel communication
- Provides newest results for multi-level data transmission over plastic optical fibers
- Describes newest results for binary data transmission over POF with equalizer
- Displays the design of linear and highly sensitive optical receivers for POF data transmission
- Shows numerous detailed circuit diagrams and plots of measured results to allow a fast comprehension

Contents

Multilevel Signaling; Equalization Techniques; High-Speed Transmission over Step-Index PMMA Plastic Optical Fibers; Transimpedance Amplifier Theory; Integrated Optical Receiver for Multilevel Transmission over PMMA SI-POF; Integrated Optical Receiver with an Integrated Equalizer for SI-POF.

Fields of interest

Optics, Optoelectronics, Plasmonics and Optical Devices; Microwaves, RF and Optical Engineering; Electronic Circuits and Devices

Target groups

Research

Product category

Monograph

IGISOL

A Portrait of the Ion Guide Isotope Separator On-Line Facility in Jyväskylä

The IGISOL group at the University of Jyväskylä studies the properties of nuclei far off the line of beta stability. These studies are performed locally at the Jyväskylä Ion Guide Isotope Separator On-Line (IGISOL) facility, as well as at a number of other laboratories such as the ISOLDE facility in CERN, at GANIL and in Helmholtzzentrum GSI, the location of the future radioactive beam facility FAIR. The group is also actively involved in work to support the development of international future facilities EURISOL and aforementioned FAIR. This book presents carefully selected papers to portray the work at IGISOL. Previously published in the journals Hyperfine Interactions and European Physical Journal A.

Features

- Provides a concise overview of instable nuclei
- Covers all aspects of IGISOL
- Written by experts in the field

Contents

Introduction; Experimental facilities and methods; Decay Spectroscopy; Ground state properties of nuclei; Charge radii and moments; Ground State Properties; Atomic Masses; Applied and miscellaneous; Future developments.

Fields of interest

Nuclear Physics, Heavy Ions, Hadrons; Particle Acceleration and Detection, Beam Physics

Target groups

Research

Product category

Monograph

An Introduction to the Evolution of Single and Binary Stars

An Introduction to the Evolution of Single and Binary Stars provides physicists with an understanding of binary and single star evolution, beginning with a background and introduction of basic astronomical concepts. Although a general treatment of stellar structure and evolution is included, the text stresses the physical processes that lead to stellar mass compact object binaries that may be sources of observable gravitational radiation.

Features

- Introduces the physics behind single and binary stellar evolution, assuming no prior knowledge of astronomy
- Focuses on the evolution of stars to the end point of white dwarf, neutron star, and black hole binary systems
- Fills the niche between more-and-less advanced books, currently available on the topic

Contents

Classifying and Describing Stars; Introduction to Binary Systems; Measuring Other Stellar Properties; Stellar Evolution Equations; Gas and Radiation Pressures; Radiative Transfer and Stellar Atmospheres; Nuclear Processes; Simple Stellar Models; Stability; Stellar Birth; Main Sequence Structure; Compact Remnants; Binary Evolution; Star Cluster Dynamics; Dynamical Evolution of Binaries; Useful Constants; Atomic Properties of Selected Elements; Closest and Brightest Stars; Solutions; Index.

Fields of interest

Astrophysics and Astroparticles; Classical and Quantum Gravitation, Relativity Theory; Cosmology

Target groups

Upper undergraduate

Product category

Undergraduate textbook

Due December 2012

2013. XVII, 148 p. 75 illus., 6 in color. (Springer Series in Optical Sciences, Volume 172) Hardcover

- € (D) 106,95 | € (A) 109,95 | sFr 133,50
- € 99,95 | £90.00

ISBN 978-3-642-30387-6

Due September 2012

2013. 200 p. 120 illus. Hardcover

- € (D) 106,95 | € (A) 109,95 | sFr 133,50
- € 99,95 | £90.00

ISBN 978-94-007-5554-3

Due November 2012

2013. XII, 258 p. 68 illus., 31 in color. (Undergraduate Lecture Notes in Physics) Softcover

- € (D) 48,10 | € (A) 49,45 | sFr 60,00
- € 44,95 | £40.99

ISBN 978-1-4419-9990-0
Physicists

P. Bouillot, University of Geneva, Switzerland

Statics and Dynamics of Weakly Coupled Antiferromagnetic Spin-1/2 Ladders in a Magnetic Field

This thesis shows how a combination of analytic and numerical techniques, such as a time dependent and finite temperature Density Matrix Renormalization Group (DMRG) technique, can be used to obtain the physical properties of low dimensional quantum magnets with an unprecedented level of accuracy. A comparison between the theory and experiment then enables these systems to be used as quantum simulators; for example, to test various generic properties of low dimensional systems such as Luttinger liquid physics, the paradigm of one dimensional interacting quantum systems. Application of these techniques to a material made of weakly coupled ladders (BPCB) allowed the first quantitative test of Luttinger liquids. In addition, other physical quantities (magnetization, specific heat etc.)

Features
- Nominated as an outstanding contribution by the University of Geneva
- Presents the first quantitative test of the Luttinger liquid universality class
- Demonstrates that these systems hold great promise as quantum simulators
- Provides a full determination of the dynamical correlation functions

Contents
Introduction.- Spin-1/2 ladders.- Methods.- Static properties and NMR relaxation rate.- Dynamical correlations of a spin ladder.- Conclusions and perspectives.

Fields of interest
Quantum Information Technology; Spintronics; Solid State Physics; Numerical and Computational Physics

Target groups
Research

Product category
Monograph

Due January 2013
2013. 123 p. 37 illus., 12 in color. (Springer Theses) Hardcover
- € (D) 106,95 | € (A) 109,95 | sFr 133,50
- £ 99,95 | £90.00
ISBN 978-3-642-33807-6

J. B. Glattfelder, Swiss Federal Institute of Technology, Zurich, Switzerland

Decoding Complexity
Uncovering Patterns in Economic Networks

Today it appears that we understand more about the universe than about our interconnected socio-economic world. In order to uncover organizational structures and novel features in these systems, we present the first comprehensive complex systems analysis of real-world ownership networks. This effort lies at the interface between the realms of economics and the emerging field loosely referred to as complexity science. The structure of global economic power is reflected in the network of ownership ties of companies and the analysis of such ownership networks has possible implications for market competition and financial stability. Thus this work presents powerful new tools for the study of economic and corporate networks that are only just beginning to attract the attention of scholars.

Features
- Nominated as an outstanding contribution by the ETH Zurich
- Presents powerful new methods for understanding economic and corporate networks
- Written in a lucid and accessible style
- Will appeal to readers from many disciplines that involve complex networks

Contents

Fields of interest
Complex Networks; Economic Theory; Game Theory, Economics, Social and Behav. Sciences

Target groups
Research

Product category
Monograph

Due December 2012
2013. XVI, 262 p. 59 illus., 19 in color. (Springer Theses) Hardcover
- € (D) 106,95 | € (A) 109,95 | sFr 133,50
- £ 99,95 | £90.00
ISBN 978-3-642-33423-8

M. Goupil, K. Belkacem, C. Neiner, Observatory of Paris-Meudon, France; F. Lignières, Research Institute of Astrophysics and Planetary, Toulouse, France; J. L. Green, NASA, Washington, DC, USA (Eds)

Studying Stellar Rotation and Convection
Theoretical Background and Seismic Diagnostics

This volume synthesizes the results of work carried out by several international teams of the SIROCO (Seismology for Rotation and Convection) collaboration. It provides the theoretical background required to interpret the huge quantity of high-quality observational data recently provided by space experiments such as CoRoT and Kepler. Asteroseismology allows astrophysicists to test, to model and to understand stellar structure and evolution as never before.

Features
- Provides the fundamentals of astroseismology with a focus on waves caused by stellar rotation and by stellar convection.
- Gives the necessary theoretical background to interpret observations by space experiments such as CoRoT and Kepler
-Synthesizes the results of work carried out by a collaboration of several international teams

Contents

Fields of interest
Astrophysics and Astrophotocics; Astronomy, Observations and Techniques; Numerical and Computational Physics

Target groups
Research

Product category
Monograph

Due January 2013
2013. Approx. 280 p. (Lecture Notes in Physics, Volume 865) Softcover
- € (D) 48,10 | € (A) 49,45 | sFr 60,00
- £ 44,95 | £40.99
ISBN 978-3-642-33379-8

Due January 2013
2013. 123 p. 37 illus., 12 in color. (Springer Theses) Hardcover
- € (D) 106,95 | € (A) 109,95 | sFr 133,50
- £ 99,95 | £90.00
ISBN 978-3-642-33807-6
Lunar Domes
Properties and Formation Processes

Lunar domes are structures of volcanic origin which are usually difficult to observe due to their low heights. The Lunar Domes Handbook is a reference work on these elusive features. It provides a collection of images for a large number of lunar domes, including telescopic images acquired with advanced but still moderately intricate amateur equipment as well as recent orbital spacecraft images.

Features
- Numerous step-by-step tutorials help the reader to learn quickly
- A special chapter on next generation
- Flash prepares readers for the future
- Includes ten tips on how to protect flash sites from hackers

Contents

Fields of interest
Astrophysics and Apoparticles; Planetology; Image Processing and Computer Vision

Target groups
Research

Product category
Professional book

Geoengineering Responses to Climate Change
Selected Entries from the Encyclopedia of Sustainability Science and Technology

Failure by the international community to make substantive progress in reducing CO2 emissions, coupled with recent evidence of accelerating climate change, has brought increasing urgency to the search for additional remediation approaches.

Features
- Examines the potential of geoengineering technologies to contribute to the goal of restricting global warming to within 2°C of preindustrial levels
- Discusses carbon dioxide removal (CDR) and solar radiation management (SDR)
- Places the technologies discussed in their proper social, political, and ethical contexts
- Provides valuable insights for audiences ranging from researchers and industry experts to policy makers and university-level students

Contents

Fields of interest
Geophysics and Environmental Physics; Meteorology/Climatology; Climate Change

Target groups
Upper undergraduate

Product category
Monograph

Due December 2012
Hardcover
- * € (D) 181,85 | € (A) 186,94 | sFr 226,50
- € 169,95 | 153.00
ISBN 978-94-007-5579-3

Due October 2012
2013. X, 200 p. 41 illus., 32 in color. Hardcover
- * € (D) 106,95 | € (A) 109,95 | sFr 133,50
- € 99,95 | 90,00

Softcover
- * € (D) 96,25 | € (A) 98,95 | sFr 120,00
- € 89,95 | 81,00
ISBN 978-94-007-5585-7

Unifying Electron
Crystallography and Powder Diffraction

Contents
Three Dimensional Solar Cells Based on Optical Confinement Geometries

Three dimensional (3D) optical geometries are becoming more common in the literature and lexicon of solar cells. Three Dimensional Solar Cells Based on Optical Confinement Geometries describes and reveals the basic operational nuances of 3D photovoltaics using three standard tools: Equivalent Circuit Models, Ray Tracing Optics in the Cavity, and Absorber Spectral Response. These tools aide in understanding experimental absorption profile and device parameters including Jsc, Voc, Fill Factor, and EQE.

Features
- Summarizes the theoretical models and current development of 3D solar cells, which has drawn much interest from scientists and groups all over the world
- Provides excellent reference for scientists in conventional planar solar cells, especially advanced device fabrication and optical research
- Nominated as an outstanding contribution by Wake Forest University, North Carolina, USA

Contents

Fields of interest
Optics, Optoelectronics, Plasmons and Optical Devices; Energy Technology; Semiconductors

Target groups
Research

Product category
Monograph

Due December 2012
2013. XXIII, 175 p. 94 illus., 88 in color. (Springer Theses) Hardcover
- € (D) 106,95 | € (A) 109,95 | sFr 133,50
- € 99,95 | £90.00

Turbulence and Self-Organization Modeling Astrophysical Objects

Contents

Fields of interest
Fluid- and Aerodynamics; Dynamical Systems and Ergodic Theory; Astrophysics and Astroparticles

Target groups
Research

Product category
Monograph

Due December 2012
2013. XXV, 736 p. 53 illus., 42 in color. (Springer Theses) Hardcover
- € (D) 106,95 | € (A) 109,95 | sFr 133,50
- € 99,95 | £90.00

Rational Reconstructions of Modern Physics

Contents
- It summarises and encapsulates the author’s profound life work on the reconstruction of quantum theory and the theories of relativity.

Fields of interest
History and Philosophical Foundations of Physics; Philosophy of Science; Theoretical, Mathematical and Computational Physics

Target groups
Research

Product category
Monograph

Due December 2012
2nd ed. 2013. V, 125 p. 22 illus., 2 in color. (Fundamental Theories of Physics, Volume 174) Hardcover
- € (D) 106,95 | € (A) 109,95 | sFr 133,50
- € 99,95 | £90.00
M. Ohtsu, Tokyo University, Japan (Ed)

**Handbook of Nano-Optics and Nanophotonics**

**Contents**


**Fields of interest**

Quantum Optics; Nanotechnology; Nanotechnology and Microengineering

**Target groups**

Research

**Product category**

Handbook

--

Y. Oono, University of Illinois, IL, USA

**The Nonlinear World**

**Conceptual Analysis and Phenomenology**

The most important characteristic of the “world filled with nonlinearity” is the existence of scale interference: disparate space–time scales interfere with each other. Thus, the effects of unknowable scales invade the world that we can observe directly. This leads to various peculiar phenomena such as chaos, critical phenomena, and complex biological phenomena, among others. Conceptual analysis and phenomenology are the keys to describe and understand phenomena that are subject to scale interference, because precise description of unfamiliar phenomena requires precise concepts and their phenomenological description. The book starts with an illustration of conceptual analysis in terms of chaos and randomness, and goes on to explain renormalization group philosophy as an approach to phenomenology. Then, abduction is outlined as a way to express what we have understood about the world. The book concludes with discussions on how we can approach genuinely complex phenomena, including biological phenomena.

**Features**

- Conceptual analysis and Phenomenology are illustrated with chaos and phase transitions
- Contains an explanation of renormalization group theory for ODE and PDE by the author of the approach
- Provides a critical analysis of complexity to dispel misunderstandings on this topic

**Contents**


**Fields of interest**

Statistical Physics, Dynamical Systems and Complexity; Complexity; Systems Biology

**Target groups**

Professional/practitioner

**Product category**

Monograph

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**Dynamics of Gas-Surface Interactions**

Atomic-level Understanding of Scattering Processes at Surfaces

**Contents**


**Fields of interest**

Astrobiology; Demography; Physical Chemistry

**Target groups**

Research

**Product category**

Monograph

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**Handbook of Nano-Optics and Nanophotonics**

Due October 2013

Print

2014. 1200 p. 200 illus. in color.

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ISBN 978-3-642-31065-2

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**The Nonlinear World**

Due October 2012

Print + eReference

2013. XII, 300 p. 56 illus. (Springer Series in Synergetics) Hardcover

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ISBN 978-4-431-54028-1
Physics

J. Orcutt, University of California, San Diego, CA, USA (Ed)

Earth System Monitoring
Selected Entries from the Encyclopedia of Sustainability Science and Technology

Contents

Fields of interest
Geophysics and Environmental Physics; Earth System Sciences; Monitoring/Environmental Analysis

Target groups
Upper undergraduate

Product category
Monograph

Due October 2012
2013. X, 500 p. 142 illus., 120 in color. Hardcover
► * € (D) 181,85 | € (A) 186,94 | sFr 226,50
► * € 169,95 | £153.00
ISBN 978-1-4614-5683-4

Physics and Applications of Terahertz Radiation

M. Perenzoni, Fondazione Bruno Kessler, Povo, Italy; D. J. Paul, University of Glasgow, UK (Eds)

Understanding Viscoelasticity
An Introduction to Rheology

N. Phan-Thien, National University of Singapore, Singapore

Contents

Fields of interest
Geophysics and Environmental Physics; Earth System Sciences; Monitoring/Environmental Analysis

Target groups
Upper undergraduate

Product category
Monograph

Due March 2013
► approx. * € (D) 106,95 | € (A) 109,95 | sFr 133,50
► approx. * £ 99,95 | £90.00

Due January 2013
2nd ed. 2013. 200 p. 65 illus. (Graduate Texts in Physics) Hardcover
► * € (D) 74,85 | € (A) 76,95 | sFr 93,50
► * £ 69,95 | £62.99
ISBN 978-3-642-32957-1
Epitaxy of Semiconductors
Introduction to Physical Principles

Introduction to Epitaxy provides the essential information for a comprehensive upper-level graduate course treating the crystalline growth of semiconductor heterostructures. Heteroepitaxy represents the basis of advanced electronic and optoelectronic devices today and is considered one of the top fields in materials research. The book covers the structural and electronic properties of strained epitaxial layers, the thermodynamics and kinetics of layer growth, and the description of the major growth techniques metalorganic vapor phase epitaxy, molecular beam epitaxy and liquid phase epitaxy. Cubic semiconductors, strain relaxation by misfit dislocations, strain and confinement effects on electronic states, surface structures and processes during nucleation and growth are treated in detail.

Features
- Provides the essentials for a comprehensive graduate course on crystal growth of semiconductor heterostructures
- Covers thermodynamics and kinetics of layer growth and major growth techniques
- Gives detailed information to apply the crystal growth techniques
- Written in tutorial style
- Contains many instructive diagrams
- Supports learning with exercises after each chapter and solutions in the end of the book

Contents

Fields of interest
Semiconductors; Optical and Electronic Materials; Physical Chemistry

Target groups
Graduate

Product category
Graduate/Advanced undergraduate textbook

U. W. Pohl, TU Berlin, Germany

Climate Change Modeling Methodology
Selected Entries from the Encyclopedia of Sustainability Science and Technology

The Earth’s average temperature has risen by 1.4°F over the past century, and computer models project that it will rise much more over the next hundred years, with significant impacts on weather, climate, and human society.

Features
- Features authoritative, peer-reviewed contributions on the development and use of contemporary methods in climate change science
- Provides insight into the construction, assessment, and testing of climate models
- Covers individual component models for the atmosphere, ocean, land, and ice, and discusses their contribution to an example of climate change in monsoon systems
- Discusses how climate change models can shed light on the changing climate of the past and on possible shifts in the future

Contents

Fields of interest
Geophysics and Environmental Physics; Climate Change; Climate Change

Target groups
Upper undergraduate

Product category
Monograph

P. J. Rasch, Pacific Northwest National Laboratory, Richland, WA, USA (Ed)

Dynamical Stabilization of the Fermi Scale
Towards a Composite Universe

Strong dynamics constitutes one of the pillars of the standard model of particle interactions, and it accounts for the bulk of the visible matter in the universe made by ordinary protons and neutrons. It is therefore a well posed question to ask if the rest of the universe can be described in terms of new highly natural four-dimensional strongly coupled theories. The main goal of this lecture-based primer is to provide a coherent overview of how new strong dynamics can be employed to address the relevant challenges in particle physics and cosmology from composite Higgs dynamics to dark matter and inflation. We will first introduce the topic of dynamical breaking of the electroweak symmetry also known as technicolor. The knowledge of the phase diagram of strongly coupled theories plays a fundamental role when trying to construct viable extensions of the standard model. Therefore we present the state-of-the-art of the phase diagram for gauge theories as function of the number of colors, flavors, matter representation and gauge group. Recent extensions of the standard model featuring minimal technicolor theories are then introduced as relevant examples. We finally show how technicolor or in general new strongly coupled theories can lead to natural candidates of composite dark matter and inflation.

Contents

Fields of interest
Elementary Particles, Quantum Field Theory; Quantum Field Theories, String Theory

Target groups
Graduate

Product category
Brief

F. Sannino, University of Southern Denmark, Odense, Denmark

Due November 2012

2013. XII, 324 p. 210 illus., 57 in color. (Graduate Texts in Physics) Hardcover
- * (D) 74,85 | (A) 76,95 | sFr 93,50
- € 69,95 | £ 62,99
ISBN 978-3-642-32969-2

Due October 2012

2013. X, 410 p. 73 illus., 65 in color. Hardcover
- * (D) 139,05 | (A) 142,94 | sFr 173,00
- € 129,95 | £ 117,00
ISBN 978-1-4614-5766-4

Due December 2012

2013. VII, 131 p. 37 illus., 27 in color. (SpringerBriefs in Physics) Softcover
- * (D) 53,45 | (A) 54,95 | sFr 66,50
- € 49,95 | £ 44,99
ISBN 978-3-642-33340-3
**Physics**

V. P. Skulachev, A. V. Bogachev, F. O. Kasparinsky, Moscow State University, Russia

**Principles of Bioenergetics**

Principles of Bioenergetics summarizes one of the quickly growing branches of modern biochemistry. Bioenergetics concerns energy transductions occurring in living systems and this book pays special attention to molecular mechanisms of these processes.

**Features**
- Comprehensive up-to-date treatment of molecular bioenergetic mechanisms
- Authors are the inventors of this branch within modern biology
- Written also for advanced undergraduate and graduate students in biophysics, biology and medicinal chemistry

**Contents**

**Fields of interest**
Biophysics and Biological Physics; Cell Biology; Physical Chemistry

**Target groups**
Research

**Product category**
Monograph

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S. Will, Massachusetts Institute of Technology, Cambridge, MA, USA

**From Atom Optics to Quantum Simulation**

**Interacting Bosons and Fermions in Three-Dimensional Optical Lattice Potentials**

This thesis explores ultracold quantum gases of bosonic and fermionic atoms in optical lattices. The highly controllable experimental setting discussed in this work, has opened the door to new insights into static and dynamical properties of ultracold quantum matter. One of the highlights reported here is the development and application of a novel time-resolved spectroscopy technique for quantum many-body systems. By following the dynamical evolution of a many-body system after a quantum quench, the author shows how the important energy scales of the underlying Hamiltonian can be measured with high precision.

**Features**
- A remarkable collection of advances in a rapidly growing research field
- Newcomers will benefit from the clear descriptions and carefully designed diagrams
- Nominated as an outstanding contribution by the University of Munich

**Contents**

**Fields of interest**
Quantum Gases and Condensates; Quantum Information Technology, Spintronics; Quantum Physics

**Target groups**
Research

**Product category**
Monograph

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T. Yuasa, The University of Tokyo, Japan

**Suzaku Studies of White Dwarf Stars and the Galactic X-ray Background Emission**

This thesis presents a study of the origin of an apparently extended X-ray emission associated with the Galactic ridge. The study was carried out with broadband spectra obtained from mapping observations in the Galactic bulge region conducted in 2005–2010 by the Suzaku space X-ray observatory. The spectra were analyzed with a newly constructed X-ray spectral model of an accreting white dwarf binary that is one of the proposed candidate stars for the origin of the Galactic ridge emission in the higher energy band. Fitting of the observed Galactic ridge spectra with the model showed that there is another spectral component that fills the gap between the observed X-ray flux and the component expected from the accreting white dwarf spectral model in the lower energy band.

**Features**
- Provides an X-ray spectral model that estimates white dwarf masses by fitting observed data from the Suzaku observatory
- Reveals that the observed broadband spectra of the Galactic ridge X-ray emission can be explained by a sum of spectra of known types of X-ray stars
- Nominated as an outstanding contribution by the University of Tokyo’s Physics Department in 2011

**Contents**

**Fields of interest**
Astronomy, Observations and Techniques; Measurement Science and Instrumentation

**Target groups**
Research

**Product category**
Monograph

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Due November 2012

Original Russian edition published by Moscow State University, 2010

2013, XIV, 399 p. 191 illus., 99 in color. Hardcover
- € (D) 106,95 | € (A) 109,95 | sFr 133,50
- € 99,95 | £90.00
ISBN 978-3-642-33429-9

Due December 2012

2013, XIV, 291 p. 96 illus., 28 in color. (Springer Theses) Hardcover
- € (D) 106,95 | € (A) 109,95 | sFr 133,50
- € 99,95 | £90.00
ISBN 978-3-642-33632-4

Due October 2012

2013, XII, 188 p. 81 illus., 32 in color. (Springer Theses) Hardcover
- € (D) 106,95 | € (A) 109,95 | sFr 133,50
- € 99,95 | £90.00
ISBN 978-4-431-54218-6