**Functional Respiratory Disorders**

When Respiratory Symptoms Do Not Respond to Pulmonary Treatment

Features

- Teaches clinicians to empower themselves by learning how to incorporate various therapies for functional disorders into their practice, including biofeedback, breathing techniques, basic cognitive behavioral therapy techniques, and hypnosis.
- Provides practical strategies for obtaining training in these modalities are provided in the appendix.
- Written by an international group of authors.

Contents


Fields of interests

Pneumology/Respiratory System; Internal Medicine

Target groups

Professional/practitioner

Product category

Professional/practitioner

Contributed volume

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**Movement Disorders**

A Video Atlas

Movement Disorders: A Video Atlas is a practical and concise title offering an introduction to the field of movement disorders, which is expanding rapidly with the involvement of various disciplines and specialties. The unique feature of the book is the accompanying online video content, comprising common cases in each category of movement disorders. The video clips come from Dr. Tarsy's personal video collection at Beth Israel Deaconess Medical Center and Dr. Bhidayasiri's personal collection at Chulalongkorn University and UCLA. They can be found at www.springerimages.com/Tarsy. Each case includes expert narration from Dr. Tarsy. Rather than focusing on rare cases, the authors emphasize typical cases, with good history and physical signs. Unique, easy to read, with highly instructive supporting video content, Movement Disorders: A Video Atlas is an indispensable reference for all clinicians interested in the fascinating field of movement disorders.

Features

- Practical and concise title offering targeted introduction to the field of movement disorders.
- Includes wealth of supporting video content to enhance educational value.
- Authored by experts in the field.

Contents


Fields of interests

Neurology; Neurosurgery; Internal Medicine

Target groups

Professional/practitioner

Product category

Professional book

Contributed volume

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**Management of Prostate Cancer**

A Multidisciplinary Approach

This book provides an exhaustive review of the current state of the art in the management of prostate cancer, from screening to treatment. A particular feature is the emphasis placed on the value of a multidisciplinary approach. The opening chapters address basic aspects including epidemiology, biology, and chemoprevention.

Features

- Includes up-to-date data from clinical trials.
- Multidisciplinary approach.
- Edited by two experts with worldwide reputations who have coordinated phase III EORTC trials.

Contents

Epidemiology of prostate cancer in Europe.- Chemoprevention.- Individual and mass screening.- Biology.- Diagnosis, clinical work up, TNM classification.- Markers.- Active surveillance.- Open Radical Prostatectomy.- The robotic laparoscopic radical prostatectomy.- Brachytherapy (Low dose and High dose).- 3D-CRT +/- IMRT.- Combination External irradiation-androgen deprivation.- Post-operative irradiation: immediate or early delayed?.- High Intensity Focused Ultrasound.- Follow-up after radical treatment and relapse.- First line hormonal manipulations.- Resistance to chemical castration.- Second line hormonal treatment.- Targeted therapies and vaccination.- How to interpret results?.- Prostate EAU guidelines.- Better Patients perspective.- Conclusion.

Fields of interests

Oncology; Radiotherapy; Epidemiology

Target groups

Professional/practitioner

Product category

Professional book

Contributed volume

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**Due June 2012**

2012. 444 p. 25 illus., 14 in color. With online files/ update. (Respiratory Medicine) Hardcover

- approx. * € (D) 165,80 | € (A) 170,44 | sFr 206,50
- approx. ** € 154,95 | £139.50

ISBN 978-1-61779-856-6

**Due June 2012**

2012. 240 p. 117 illus., 112 in color. With online files/ update. (Current Clinical Neurology) Hardcover

- approx. * € (D) 82,02 | € (A) 84,32 | sFr 165,50
- approx. ** € 76,65 | £69.99


**Due May 2012**

2012. XV, 347 p. 59 illus., 44 in color. Hardcover

- * € (D) 128,35 | € (A) 131,95 | sFr 160,00
- ** € 119,95 | £108.00

ISBN 978-3-642-27596-8
Surgical Guide to Circumcision

Contents


Fields of interests
Pedicure Surgery; Urology/Andrology; Pediatrics

Target groups
Professional/practitioner

Product category
Professional book

Due June 2012

Radiology of the Post Surgical Abdomen

Radiology of the Post Surgical Abdomen provides a comprehensive overview of all abdominal operations involving the gastrointestinal tract, pancreas, hepatobiliary and genitourinary systems. Each chapter is fully illustrated with artists’ drawings and radiological images of normal post operative anatomy. The complications associated with each procedure are described alongside imaging examples. Written by experts in the field, Radiology of the Post Surgical Abdomen provides the reader with key teaching points emphasising differentiation between normal post-operative anatomy and complications.

Features

Illustrated with artist line drawings Extensive library of high resolution TIFF images of post-operative anatomy and complications All images have arrows delineating normal anatomy and features of complications Written by experts with an excellent national and international reputation in gastrointestinal and hepatobiliary radiology and surgery

Contents

Introduction to the Post Surgical Abdomen.- The Oesophagus.- The Stomach and Duodenum.- The Pancreas.- The Biliary Tree.- The Liver.- The Small Bowel.- The Colon.- Genitourinary System.

Fields of interests
Imaging / Radiology; Diagnostic Radiology; Abdominal Surgery

Target groups
Professional/practitioner

Product category
Professional book

Due April 2012

Molecular Pathology of Lung Cancer

Molecular Pathology of Lung Cancer comprehensively covers the new molecular pathology of lung cancer. It provides the latest information and current insights into the biology of lung cancer by experts in the field.

Contents


Fields of interests
Pathology; Oncology; Thoracic Surgery

Target groups
Professional/practitioner

Product category
Contributed volume

Due June 2012

Molecular Pathology of Lung Cancer

Contents

Current Lung Cancer Classification.- Molecular Pathology of Small Cell Carcinomas.- Revised Classification for Adenocarcinoma.- Molecular Pathology of Other Than Small Cell Carcinomas.- Molecular Pathology of Uncommon Carcinomas.- Biology of Lung Cancer Metastases.

Fields of interests
Pathology; Oncology; Thoracic Surgery

Target groups
Professional/practitioner

Product category
Contributed volume
Neurorehabilitation Technology

Contents
- Foreword.
- Preface.
- Introduction.
- Part 1 Basic Framework.
- 1 Multi-System Neurorehabilitation in Rodents with Spinal Cord Injury.
- 2 Application Issues for Robotics.
- 3 The Human in the Loop.
- 5 The Do We Apply Technology (Robots) for Treatment Challenges and Limitations: A Theoretical Framework.
- 6 Error Augmentation and the Role of Sensory Feedback.
- 7 Applying Principles of Motor Control to Rehabilitation Technologies.
- 8 Functional Electrical Stimulation Therapy.
- 11 Section 1: Technological Aspects.
- 12 8 Forging Mens et Manus: The MIT Experience in Upper Extremity Robotic Therapy.
- 13 9 Three-Dimensional Multi-Degree of Freedom Arm Therapy Robot ARMin.
- 14 10 Passive Devices for Upper Limb Training.
- 15 Section 2: Clinical Applications.
- 18 13 Part 4 Robotics for Lower Extremity (Locomotion).
- 19 14 Section 1: Technological Aspects.
- 20 15 Technology of the Robotic Gait Orthosis Lokomat.
- 21 16 Beyond Human or Robot Administered Treadmill Training.
- 22 17 Section 2: Clinical Aspects.
- 23 18 Robotics for Stroke Recovery.
- 24 19 16 Clinical Aspects for the Application of Robotics in Neurorehabilitation.
- 25 20 17 Transfer of Technology into Clinical Application.

Fields of interests
- Neurology; Rehabilitation Medicine; Physiotherapy

Target groups
- Professional/practitioner

Product category
- Contributed volume

Due March 2012
2008. XXX, 1346 p. 758 illus., 287 in color. (Biological and Medical Physics, Biomedical Engineering)
- Hardcover
  - € (D) 213,95 | € (A) 219,94 | sFr 266,50
  - ISBN 978-3-642-27643-9

Due April 2012
2012. XXI, 195 p. 19 illus., 10 in color. Hardcover
- € (D) 106,95 | € (A) 109,95 | sFr 133,50
  - ISBN 978-3-642-27599-9

Optical Coherence Tomography

Contents
- Introduction to Optical Coherence Tomography.
- Theory of Optical Coherence Tomography.
- Modeling Light-Tissue Interaction in Optical Coherence Tomography Systems.
- Part I Optical Coherence Tomography Technology.
- Dual Beam Interferometers and Novel Optical Coherence Tomography.
- 7 Spectral/Fourier Domain Optical Coherence Tomography.
- 8 Complex and Coherence-Noise Free Fourier Domain Optical Coherence Tomography.
- 9 Optical Frequency Domain Imaging.
- 10 Ultrahigh Resolution Optical Coherence Tomography.
- 11 Superluminescent Diode Light Sources for OCT.
- 12 Broad Bandwidth Laser and Nonlinear Optical Light Sources for OCT.
- 13 Wavelength Swept Lasers.
- 14 Optical design for OCT.
- 15 Data Analysis and Signal Post-Processing for Optical Coherence Tomography.
- 16 Part II En Face Optical Coherence Tomography and Optical Coherence Microscopy.
- 17 Linear OCT.
- 18 En-face Flying Spot OCT/Ophthalmoscope.
- 19 Acousto Optic Modulator Based En Face OCT.
- 20 Optical Coherence Microscopy.
- 21 Combined MPM/OCT System and Second Harmonic OCT.
- 22 Full-Field Optical Coherence Tomography.
- 23 Holographic Optical Coherence Imaging.
- 24 Part III Optical Coherence Tomography Extensions.
- 25 Doppler Optical Coherence Tomography.
- 26 Polarization-Sensitive Optical Coherence Tomography.
- 27 Using Low Coherent Light for Spectroscopic Information from Tissue.
- 28 Molecular OCT Contrast Enhancement and Imaging.
- 29 Ultrasensitive Phase-Resolved Imaging of Cellular Morphology and Dynamics.

Fields of interests
- Imaging / Radiology; Ophthalmology; Optics, Optoelectronics, Plasmonics and Optical Devices

Target groups
- Research

Product category
- Monograph

Radionuclide Education

Contents
- The Nature of Radialogical Expertise.
- Fundamentals of Assessment and Evaluation.
- Clarification of terminology.
- Competence in other professions: Expanding opportunities and emerging practices.
- Part 2: Evaluation and assessment in Radialogy education.
- The Philosophy, Principles and Practice of Assessment and Evaluation in Radialogy.
- Experiential Requirements and Competencies in Radialogy Training.
- Assessing Trainees During Educational Rounds.
- Assessment and Evaluation of Programs.
- Assessment and Evaluation in a Transnational Radiodiagnosis Training Program.
- Case study from Europe.
- Measuring clinical competence of Radialogy Education programs and residents: The Egyptian experience.
- Measuring clinical competence in Nuclear Medicine: The Philippines experience.

Fields of interests
- Imaging / Radiology; Nuclear Medicine

Target groups
- Professional/practitioner

Product category
- Professional book
Minimal Residual Disease and Circulating Tumor Cells in Breast Cancer

Contents
Minimal residual disease and circulating tumor cells in breast cancer: Open questions for research.- Minimal residual disease and breast cancer metastasis.- Self-seeding in cancer.- Microenvironments dictating tumor cell dormancy.- Technologies for detecting circulating tumor cell (CTC) and disseminated tumor cell (DTC) detection and characterization.- Immunomagnetic separation technologies.- Microfluidic technologies for the isolation of CTCs.- EPISPOD assay: Detection of viable disseminating tumor cells in solid tumor patients.- Advances in optical technologies for rare cell detection and characterization.- Size-based enrichment technologies for circulating tumor cell (CTC) detection and characterization.- Emerging technologies for CTC detection based on depletion of normal cells.- Molecular assays for the detection and characterization of CTCs.- Multiplex molecular analysis of CTCs.- Other blood-based biomarkers.- Circulating DNA and next generation sequencing.- Circulating microRNAs as non-invasive biomarkers in breast cancer.- Circulating endothelial cells and circulating endothelial progenitors.- Disseminated tumor cells (DTCs) and circulating tumor cells (CTCs) in breast cancer clinical research and practice.- Bone marrow DTCs.- CTCs in primary breast cancer.- CTCs in early breast cancer.- CTCs in metastatic breast cancer.- HER2-positive DTCs/CTCs in breast cancer.- DTCs and CTCs in breast cancer – 5 decades later.- Drug and circulating tumor cell co-development. [...]
**Muscles, Nerves and Pain**

**A Guide to Diagnosis, Pain Concepts and Therapy**

Many patients suffer from problems in their muscles or nerves in combination with pain. This book is about the interplay of these problems. Pain is the subjective experience of a psycho-physical phenomenon arising from a defined area in the body. It is a cry for help and challenges the physician to ask the right questions and to carry out the right examinations. If they succeed in doing so, the patient’s signs and symptoms will be translated into the present knowledge of pain concepts to initiate appropriate therapy. With this goal in mind, this book summarizes the latest scientific information on pain states and their mechanisms. It provides a deeper understanding of the different pain conditions and allows physicians to form strategies for a mechanism-based pain therapy. When puzzling symptoms of sensory, motor and autonomic deficits are evident, an examination has to be performed systematically in order to reach the correct diagnosis. This calls for suitable anatomical knowledge. Depending on where a lesion exists within a peripheral nerve, the root or the plexus, typical patterns of paralysis can be detected.

**Features**
- Written by an expert in this field
- Numerous color images
- Comprehensive in scope

**Contents**
2. Examination process.
3. Electrophysiology.
4. Radicular lesions.
5. Lesions of single nerves.
6. Pain from nerve, muscle, and tissue.
7. Polyneuropathy.
8. General Lesions of single nerves.

**Fields of interest**
- Neurology
- Pain Medicine

**Target groups**
- Professional/practitioner

**Product category**
- Monograph

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**Whiplash Injury**

**New Approaches of Functional Neuroimaging**

In the past two decades much has been published on whiplash injury, yet both the confusion regarding the condition and the medicolegal discussion surrounding it have increased. In this scenario, a guide to recent and current international research in the field is more necessary than ever.

**Features**
- Presents the latest insights offered by functional imaging into whiplash injury
- Covers all aspects, including imaging tools and methods of image analysis
- Broad appeal for treating physicians, patients, and lawyers

**Contents**

**Fields of interest**
- Nuclear Medicine
- Imaging / Radiology
- Neuroradiology

**Target groups**
- Professional/practitioner

**Product category**
- Professional book

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**Simulation Training in Laparoscopy and Robotic Surgery**

The field of minimally invasive surgery (MIS) has now taken centre stage in modern clinical practice. With ever changing technologies in the field of MIS, such as robotics, there is now the need to train the surgeon to the next degree.

**Features**
- Simulation Training in Laparoscopy and Robotic Surgery is a compact text containing full color illustrations for ease of use
- Written by an international team of experts
- Simulation Training in Laparoscopy and Robotic Surgery gives a true insight into the latest educational and learning techniques for new technologies in surgery

**Contents**

**Fields of interest**
- Minimally Invasive Surgery
- Urology/Andrology

**Target groups**
- Professional/practitioner

**Product category**
- Professional book

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Due February 2012
2012. Approx. 180 p. 99 illus., 80 in color. Softcover
- approx. * € (D) 5,30 | € (A) 5,45 | sFr 7,00
- approx. £4.95 | $4.99
ISBN 978-3-642-25442-0

Due April 2012
2012. X, 50 p. 22 illus., 12 in color. Hardcover
- approx. * € (D) 42,75 | € (A) 43,95 | sFr 53,50
- approx. £39.95 | $35.99
ISBN 978-3-642-28355-0

Due June 2012
2012. XX, 172 p. 18 illus., 16 in color. Hardcover
- approx. * € (D) 52,97 | € (A) 54,45 | sFr 67,00
- approx. £49.50 | $45.99
**Applied Physiology in Intensive Care Medicine 1**

**Physiological Notes - Technical Notes - Seminal Studies in Intensive Care**

The two previous editions of Applied Physiology in Intensive Care Medicine proved extremely successful, and the book has now been revised and split into two volumes to enhance ease of use. This first volume comprises three elements – “physiological notes,” “technical notes,” and seminal studies. The physiological notes concisely and clearly capture the essence of the physiological perspectives underpinning our understanding of disease and response to therapy. The technical notes then succinctly explain some of the basics of “how to” in this technology-centered field of critical care medicine.

**Features**
- Up-to-date compendium of practical bedside knowledge essential to the effective delivery of acute care medicine
- Ideal reference source on key issues regularly confronted by clinicians
- Comprises concise physiological and technical notes, more detailed reviews, and a series of seminal studies
- Written by renowned experts in the field

**Contents**
- Physiological Notes: Pulmonary
- Cardiovascular
- Metabolism and Renal Function
- Cerebral Function
- Technical Notes
- Seminal Studies in Intensive Care

**Fields of interests**
- Intensive / Critical Care Medicine; Cardiology
- Internal Medicine

**Target groups**
- Professional/practitioner

**Product category**
- Professional book

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**Applied Physiology in Intensive Care Medicine 2**

**Physiological Reviews and Editorials**

The two previous editions of Applied Physiology in Intensive Care Medicine proved extremely successful, and the book has now been revised and split into two volumes to enhance ease of use. In this second volume some of the most renowned experts in the field offer detailed reviews on measurement techniques and physiological processes of crucial importance in intensive care medicine. Throughout, a key aim is to help overcome the fundamental unevenness in clinicians’ understanding of applied physiology, which can lead to suboptimal treatment decisions. Applied Physiology in Intensive Care has been written by some of the most renowned experts in the field and provides an up-to-date compendium of practical bedside knowledge essential to the effective delivery of acute care medicine.

**Features**
- Up-to-date compendium of practical bedside knowledge essential to the effective delivery of acute care medicine
- Ideal reference source on key issues regularly confronted by clinicians
- Comprises concise physiological and technical notes, more detailed reviews, and a series of seminal studies
- Written by renowned experts in the field

**Contents**
- Physiological Reviews: Measurement techniques.
- Physiological Processes
- Editorials

**Fields of interests**
- Intensive / Critical Care Medicine; Cardiology
- Internal Medicine

**Target groups**
- Professional/practitioner

**Product category**
- Professional book

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**Ventricular Geometry in Post-Myocardial Infarction Aneurysms**

**Implications for Surgical Ventricular Restoration**

The topic of heart failure although extensively researched and reported, has several gray areas.

**Features**
- Clinical validation of a mathematical hypothesis, by the technique of EVLPP
- Clinical validation of a mathematical hypothesis, by the technique of EVLPP Clinical validation of a mathematical hypothesis for the existence of an extension of the Frank Starling mechanism in the failing heart
- Extensive video files of the surgical technique

**Contents**
1. Foreword.
2. Preface.
3. Architecture of the normal heart.
4. The normal mechanisms of cardiac contraction and relaxation.
5. Alterations in cardiac geometry with heart failure.
6. Perturbations in contraction and relaxation with heart failure.
7. Hemodynamics in ischemic cardiomyopathy.
8. History of surgical ventricular restoration.
10. Validation of near physiological restoration of left ventricular geometry by EVLPP.
11. Physiological considerations in the relationships of left ventricular volumes.
12. Evidence of an extension of Frank Starling mechanism in the failing heart.

**Fields of interests**
- Cardiac Surgery; Cardiology
- Medicine/Public Health, general

**Target groups**
- Professional/practitioner

**Product category**
- Monograph
Echocardiography for Intensivists

This book contains all the information that readers will require in order to perform echocardiography and to interpret the findings correctly. After an introductory chapter on the essential physics of ultrasound, standard echocardiographic examination via both the transthoracic and the transesophageal approach is described. In the third section, the functional anatomy of all normal and pathologic thoracic structures as observed on echocardiography is presented in detail. A wide range of basic and advanced applications of echocardiography in the emergency and intensive care setting are then described. A final supplementary section considers further applications of ultrasound in the intensive care unit.

Features

► Few books are written specifically for the intensivist ► Section D is highly original since it offers goal-directed and focus-oriented ICU echocardiography ► Numerous step-by-step algorithms help the reader with hands-on ICU applications

Contents


Fields of interests

Intensive / Critical Care Medicine; Ultrasound; Cardiology

Target groups

Professional/practitioner

Product category

Professional book

Emergency Radiology of the Abdomen

Imaging Features and Differential Diagnosis for a Timely Management Approach

The term “acute abdomen” refers to a serious, often progressive clinical situation that calls for immediate diagnostic and therapeutic action. Today, diagnosis via imaging has basically replaced the physical examination in the emergency room and the Radiologist has become of primary importance in this setting.

Features

► The latest imaging protocols ► Recent advances in post-processing techniques ► Tricks and tips for fast and rapid reporting and diagnosis ► Easy-to-read tables ► More than 300 illustrations

Contents


Fields of interests

Imaging / Radiology; Emergency Medicine; Surgery

Target groups

Professional/practitioner

Product category

Contributed volume
Drug Abuse and Addiction in Medical Illness
Causes, Consequences and Treatment

Contents