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Astro-acr Guide to Radiation Oncology Coding 2008 Supplement to the ASTRO/ACR Guide to Radiation Oncology Coding 2007 The Astro/ACR Guide to Radiation Oncology Coding 2007 Adaptive Radiation Therapy CRC Press *Modern medical imaging and radiation therapy technologies are so complex and computer driven that it is difficult for physicians and technologists to know exactly what is happening at the point-of-care. Medical physicists responsible for filling this gap in knowledge must stay abreast of the latest advances at the intersection of medical imaging and radiation therapy. This book provides medical physicists and radiation oncologists current and relevant information on Adaptive Radiation Therapy (ART), a state-of-the-art approach that uses a feedback process to account for patient-specific anatomic and/or biological changes, thus delivering highly individualized radiation therapy for cancer patients. The book should also benefit medical dosimetrists and radiation therapists. Adaptive Radiation Therapy describes technological and methodological advances in the field of ART, as well as initial clinical experiences using ART for selected anatomic sites. Divided into three sections (radiobiological basis, current technologies, and clinical applications), the book covers: Morphological and biological biomarkers for patient-specific planning Design and optimization of treatment plans Delivery of IMRT and IGRT intervention methodologies of ART Management of intrafraction variations, particularly with respiratory motion Quality assurance needed to ensure the safe delivery of ART ART applications in several common cancer types / anatomic sites The technology and methodology for ART have advanced significantly in the last few years and accumulated clinical data have demonstrated the need for ART in clinical settings, assisted by the wide application of intensity modulated radiation therapy (IMRT) and image-guided radiation therapy (IGRT). This book shows the real potential for supplying every patient with individualized radiation therapy that is maximally accurate and precise.* **Practical Radiation Oncology Springer Nature** *This book addresses the most relevant aspects of radiation oncology in terms of technical integrity, dose parameters, machine and software specifications, as well as regulatory requirements. Radiation oncology is a unique field that combines physics and biology. As a result, it has not only a clinical aspect, but also a physics aspect and biology aspect, all three of which are inter-related and critical to optimal radiation treatment planning. In addition, radiation oncology involves a host of machines/software. One needs to have a firm command of these machines and their specifications to deliver comprehensive treatment. However, this information is not readily available, which poses serious challenges for students learning the planning aspect of radiation therapy. In response, this book compiles these relevant aspects in a single source. Radiation oncology is a dynamic field, and is continuously evolving. However, tracking down the latest findings is both difficult and time-consuming. Consequently, the book also comprehensively covers the most important trials. Offering an essential ready reference work, it represents a value asset for all radiation oncology practitioners, trainees and students.* **Advances in Radiation Oncology Springer** *This book concisely reviews important advances in radiation oncology, providing practicing radiation oncologists with a fundamental understanding of each topic and an appreciation of its significance for the future of radiation oncology. It explores in detail the impact of newer imaging modalities, such as multiparametric magnetic resonance imaging (MRI) and positron emission tomography (PET) using fluorodeoxyglucose (FDG) and other novel agents, which deliver improved visualization of the physiologic and phenotypic features of a given cancer, helping oncologists to provide more targeted radiotherapy and assess the response. Due consideration is also given to how advanced technologies for radiation therapy delivery have created new treatment options for patients with localized and metastatic disease, highlighting the increasingly important role of image-guided radiotherapy in treating systemic and oligometastatic disease. Further topics include the potential value of radiotherapy in enhancing immunotherapy thanks to the broader immune-stimulatory effects, how cancer stem cells and the tumor microenvironment influence response, and the application of mathematical and systems biology methods to radiotherapy.* **Integrative Oncology Principles and Practice CRC Press** *Integrative Oncology explores a comprehensive, evidence-based approach to cancer care that addresses all individuals involved in the process, and can include the use of complementary and alternative medicine (CAM) therapies alongside conventional modalities such as chemotherapy, surgery, and radiation therapy. The number of integrative care programs is increasing worldwide and this book forms a foundation text for all who want to learn more about this growing field. This guide provides a thoughtful and generous perspective on integrative care, an outstanding overview of the exciting clinical opportunities these techniques can offer, and a guide to the new territories that all oncologists and CAM practitioners need to explore and understand.* **Spine Radiosurgery Thieme** *Spine Radiosurgery, Second Edition , is a comprehensive text that includes discussions of the latest devices, treatment planning techniques, target definition, and patient selection in this specialty. Written by leading experts in the fields of neurosurgery, radiation oncology, and medical physics, this book is the definitive reference for clinical applications of state-of-the-art radiosurgery of the spine. Key Features: Six new chapters on such topics as histopathological examination of spinal lesions, minimally invasive techniques, and treatment of spinal chordomas More than 100 full-color illustrations demonstrate key concepts Discussion of new treatments for metastatic spine disease and spinal cord compression This book is a must-have resource for clinicians, fellows, and residents in neurosurgery and radiation oncology. Spine surgeons, orthopaedists, medical physicists, and oncologists at all levels will also benefit from the wealth of information provided.* **Image-Guided and Adaptive Radiation Therapy Lippincott Williams & Wilkins** *This book provides detailed, state-of-the-art information and guidelines on the latest developments, innovations, and clinical procedures in image-guided and adaptive radiation therapy. The first section discusses key methodological and technological issues in image-guided and adaptive radiation therapy, including use of implanted fiducial markers, management of respiratory motion, image-guided stereotactic radiosurgery and stereotactic body radiation therapy, three-dimensional conformal brachytherapy, target*

definition and localization, and PET/CT and biologically conformal radiation therapy. The second section provides practical clinical information on image-guided adaptive radiation therapy for cancers at all common anatomic sites and for pediatric cancers. The third section offers practical guidelines for establishing an effective image-guided adaptive radiation therapy program. **Radiation Oncology - A Question Based Review Lippincott Williams & Wilkins** *Designed to serve as a comprehensive active learning tool for medical students, residents, and junior attending physicians, Radiation Oncology: A Question-Based Review is geared toward helping professionals quickly and efficiently review a specific topic in clinical radiation oncology. Organized into sections by system and with over 90 chapters covering all the sites and conditions for which radiation is used clinically. This publication covers in detail all the sites and cancer types currently treated with radiotherapy with an emphasis on treatment recommendations and the evidence behind them. Additionally, detailed questions are included on the natural history, epidemiology, diagnosis, staging, and treatment-related side effects for each cancer type.* **The Animal Doctor Surface Guided Radiation Therapy CRC Press** *Surface Guided Radiation Therapy provides a comprehensive overview of optical surface image guidance systems for radiation therapy. It serves as an introductory teaching resource for students and trainees, and a valuable reference for medical physicists, physicians, radiation therapists, and administrators who wish to incorporate surface guided radiation therapy (SGRT) into their clinical practice. This is the first book dedicated to the principles and practice of SGRT, featuring: Chapters authored by an internationally represented list of physicists, radiation oncologists and therapists, edited by pioneers and experts in SGRT Covering the evolution of localization systems and their role in quality and safety, current SGRT systems, practical guides to commissioning and quality assurance, clinical applications by anatomic site, and emerging topics including skin mark-less setups. Several dedicated chapters on SGRT for intracranial radiosurgery and breast, covering technical aspects, risk assessment and outcomes. Jeremy Hoisak, PhD, DABR is an Assistant Professor in the Department of Radiation Medicine and Applied Sciences at the University of California, San Diego. Dr. Hoisak's clinical expertise includes radiosurgery and respiratory motion management. Adam Paxton, PhD, DABR is an Assistant Professor in the Department of Radiation Oncology at the University of Utah. Dr. Paxton's clinical expertise includes patient safety, motion management, radiosurgery, and proton therapy. Benjamin Waghorn, PhD, DABR is the Director of Clinical Physics at Vision RT. Dr. Waghorn's research interests include intensity modulated radiation therapy, motion management, and surface image guidance systems. Todd Pawlicki, PhD, DABR, FAAPM, FASTRO, is Professor and Vice-Chair for Medical Physics in the Department of Radiation Medicine and Applied Sciences at the University of California, San Diego. Dr. Pawlicki has published extensively on quality and safety in radiation therapy. He has served on the Board of Directors for the American Society for Radiology Oncology (ASTRO) and the American Association of Physicists in Medicine (AAPM).* **Malignant How Bad Policy and Bad Evidence Harm People with Cancer Johns Hopkins University Press** *This well-written, opinionated, and engaging book explains what we can do differently to make serious and sustained progress against cancer—and how we can avoid repeating the policy and practice mistakes of the past.* **Radiation Therapy for Skin Cancer Springer Science & Business Media** *Photon Radiation Therapy for Skin Malignancies is a vital resource for dermatologists interested in radiation therapy, including the physics and biology behind treatment of skin cancers, as well as useful and pragmatic formulas and algorithms for evaluating and treating them. Dermatology has always been a field that overlaps multiple medical specialties and this book is no exception, with its focus on both dermatologists and radiation oncologists. It is estimated that between 2010 and 2020, the demand for radiation therapy will exceed the number of radiation oncologists practicing in the U.S. tenfold, which could profoundly affect the ability to provide patients with sufficient access to treatment. Photon Radiation Therapy for Skin Malignancies enhances the knowledge of dermatologists and radiation oncologists and presents them with the most up-to-date information regarding detection, delineation and depth determination of skin cancers, and appropriate biopsy techniques. In addition, the book also addresses radiation therapy of the skin and the skin's reactions to radiation therapy.* **Stereotactic Body Radiation Therapy Springer Science & Business Media** *Stereotactic body radiation therapy (SBRT) has emerged as an important innovative treatment for various primary and metastatic cancers. This book provides a comprehensive and up-to-date account of the physical/technological, biological, and clinical aspects of SBRT. It will serve as a detailed resource for this rapidly developing treatment modality. The organ sites covered include lung, liver, spine, pancreas, prostate, adrenal, head and neck, and female reproductive tract. Retrospective studies and prospective clinical trials on SBRT for various organ sites from around the world are examined, and toxicities and normal tissue constraints are discussed. This book features unique insights from world-renowned experts in SBRT from North America, Asia, and Europe. It will be necessary reading for radiation oncologists, radiation oncology residents and fellows, medical physicists, medical physics residents, medical oncologists, surgical oncologists, and cancer scientists.* **Astro: The Steller Sea Lion The Steller Sea Lion Arbordale Publishing** *After Astro, an orphaned Steller sea lion, was rescued by scientists at The Marine Mammal Center in Sausalito, California, his attachment to people made him unable to be returned to the ocean and he now lives at the Mystic Aquarium in Connecticut.* **Improving Diagnosis in Health Care National Academies Press** *Getting the right diagnosis is a key aspect of health care - it provides an explanation of a patient's health problem and informs subsequent health care decisions. The diagnostic process is a complex, collaborative activity that involves clinical reasoning and information gathering to determine a patient's health problem. According to Improving Diagnosis in Health Care, diagnostic errors-inaccurate or delayed diagnoses-persist throughout all settings of care and continue to harm an unacceptable number of patients. It is likely that most people will experience at least one diagnostic error in their lifetime, sometimes with devastating consequences. Diagnostic errors may cause harm to patients by preventing or delaying appropriate treatment, providing unnecessary or harmful treatment, or resulting in psychological or financial repercussions. The committee concluded that improving the diagnostic process is not only possible, but also represents a moral, professional, and public health imperative. Improving Diagnosis in Health Care a continuation of the landmark Institute of Medicine reports To Err Is Human (2000) and Crossing the Quality Chasm (2001) finds that diagnosis-and, in particular, the occurrence of diagnostic errorsâ€"has been largely unappreciated in efforts to improve the quality and safety of health care. Without a dedicated focus on improving diagnosis, diagnostic errors will likely worsen as the delivery of health care and the diagnostic process continue to increase in complexity. Just as the diagnostic process is a collaborative activity, improving diagnosis will require collaboration and a widespread commitment to change among health care professionals, health care organizations, patients and their families, researchers, and policy makers. The recommendations of Improving Diagnosis in Health Care contribute to the growing momentum for change in this crucial area of health care quality and safety.* **Radiobiology Self-Assessment Guide Springer Publishing Company** *Radiobiology Self-Assessment Guide--a companion to the Radiation Oncology Self-Assessment Guide and*

Physics in Radiation Oncology Self-Assessment Guide--is a comprehensive review for practitioners of radiation oncology looking to enhance their knowledge of radiobiology. It covers in depth the principles of radiobiology as applied to radiation oncology along with their clinical applications. To foster retention of key concepts and data, the resource utilizes a user-friendly "flash card" question and answer format with over 700 questions. The questions are supported by detailed answers and rationales along with reference citations for source information. The guide is comprised of 29 chapters and cover topics commonly found on the radiation and cancer biology portion of the radiation oncology board examination. Aspects of basic radiobiology covered include fundamentals such as cell cycle, cell survival curves and interactions of radiation with matter, and acute and long-term sequelae of radiation. Modern concepts such as immunotherapy, radiogenomics, and normal and cancer stem cells are also included. Focused and authoritative, this must-have review provides the expertise of faculty from the Department of Radiation Oncology at the Cleveland Clinic Taussig Cancer Institute and Lerner Research Institute. Key Features: Provides a comprehensive study guide for the Radiation and Cancer Biology portion to the Radiation Oncology Board Exam Includes more than 700 questions with detailed answers and rationales on flip pages for easy, flash card-like review Includes essential review of cancer biology concepts such as immunotherapy, stem cells, gene therapy, chemotherapy and targeted agents Content provided by a vast array of contributors, including attending radiation oncology physicians, physicists, and radiation oncology residents **Psychosocial Aspects of Pediatric Oncology John Wiley & Sons** **Radiation Oncology Physics A Handbook for Teachers and Students IAEA** *This publication is aimed at students and teachers involved in teaching programmes in field of medical radiation physics, and it covers the basic medical physics knowledge required in the form of a syllabus for modern radiation oncology. The information will be useful to those preparing for professional certification exams in radiation oncology, medical physics, dosimetry or radiotherapy technology.* **Career Development in Academic Radiation Oncology Springer Nature** *This book offers comprehensive career development advice for professionals in radiation oncology. While numerous texts have been published to advise medical students on entry into the specialty, and to guide residents and junior faculty with exam preparation, there remains a need for a comprehensive resource that covers topics pertinent to a successful career within radiation oncology. This text has been edited and written by leading experts in the field, and offers multiple unique vantage points. This work is divided into five sections covering career planning, applying to faculty positions, early career development, mid and senior career considerations, and contextual issues. Throughout the text, authors balance “nuts and bolts” (e.g., preparing your CV and evaluating a contract) with big picture considerations. Each chapter is written concisely, yet comprehensively, from the vantage point of a mentor advising a mentee; questions to review with local mentors and additional reading suggestions are also provided. Issues of workforce disparities, conscious and unconscious bias, work-life equilibrium, and interpersonal conflict, and how these may impact one’s career path, are also closely addressed. While the work is primarily targeted to those pursuing career paths within academic medicine, there is also distinct value and tailored content for trainees and radiation oncologists practicing in hospital-based, hybrid or community settings. In a period of rapid change in the healthcare sector and cancer care more specifically, this book will serve as the premier reference for those pursuing an independent career in radiation oncology.* **Human Health and Performance Risks of Space Exploration Missions Evidence Reviewed by the NASA Human Research Program U. S. National Aeronautics & Space Administration Machine Learning in Radiation Oncology Theory and Applications Springer** *This book provides a complete overview of the role of machine learning in radiation oncology and medical physics, covering basic theory, methods, and a variety of applications in medical physics and radiotherapy. An introductory section explains machine learning, reviews supervised and unsupervised learning methods, discusses performance evaluation, and summarizes potential applications in radiation oncology. Detailed individual sections are then devoted to the use of machine learning in quality assurance; computer-aided detection, including treatment planning and contouring; image-guided radiotherapy; respiratory motion management; and treatment response modeling and outcome prediction. The book will be invaluable for students and residents in medical physics and radiation oncology and will also appeal to more experienced practitioners and researchers and members of applied machine learning communities.* **Big Data in Radiation Oncology CRC Press** *Big Data in Radiation Oncology gives readers an in-depth look into how big data is having an impact on the clinical care of cancer patients. While basic principles and key analytical and processing techniques are introduced in the early chapters, the rest of the book turns to clinical applications, in particular for cancer registries, informatics, radiomics, radiogenomics, patient safety and quality of care, patient-reported outcomes, comparative effectiveness, treatment planning, and clinical decision-making. More features of the book are: Offers the first focused treatment of the role of big data in the clinic and its impact on radiation therapy. Covers applications in cancer registry, radiomics, patient safety, quality of care, treatment planning, decision making, and other key areas. Discusses the fundamental principles and techniques for processing and analysis of big data. Address the use of big data in cancer prevention, detection, prognosis, and management. Provides practical guidance on implementation for clinicians and other stakeholders. Dr. Jun Deng is a professor at the Department of Therapeutic Radiology of Yale University School of Medicine and an ABR board certified medical physicist at Yale-New Haven Hospital. He has received numerous honors and awards such as Fellow of Institute of Physics in 2004, AAPM Medical Physics Travel Grant in 2008, ASTRO IGRT Symposium Travel Grant in 2009, AAPM-IPEM Medical Physics Travel Grant in 2011, and Fellow of AAPM in 2013. Lei Xing, Ph.D., is the Jacob Haimson Professor of Medical Physics and Director of Medical Physics Division of Radiation Oncology Department at Stanford University. His research has been focused on inverse treatment planning, tomographic image reconstruction, CT, optical and PET imaging instrumentations, image guided interventions, nanomedicine, and applications of molecular imaging in radiation oncology. Dr. Xing is on the editorial boards of a number of journals in radiation physics and medical imaging, and is recipient of numerous awards, including the American Cancer Society Research Scholar Award, The Whitaker Foundation Grant Award, and a Max Planck Institute Fellowship.* **Learning to Code with CPT/HCPCS 2011 Lippincott Williams & Wilkins** *3rd YEAR - 2011 ANNUAL UPDATE Updated for 2011, this book will be the primary textbook for CPT/HCPCS coding courses for Health Information Management (HIM), Medical Billing Insurance and Coding (MBIC), Health Information Technology (HIT) and Health Administration Services (HSA) programs. Using a template similar to our Learning to Code with ICD-9-CM textbook, this book teaches students how to code with CPT/HCPCS using real world medical record examples.* **Delivering High-Quality Cancer Care Charting a New Course for a System in Crisis National Academies Press** *In the United States, approximately 14 million people have had cancer and more than 1.6 million new cases are diagnosed each year. However, more than a decade after the Institute of Medicine (IOM) first studied the quality of cancer care, the barriers to achieving excellent care for all cancer patients remain daunting. Care often is not patient-*

centered, many patients do not receive palliative care to manage their symptoms and side effects from treatment, and decisions about care often are not based on the latest scientific evidence. The cost of cancer care also is rising faster than many sectors of medicine--having increased to $125 billion in 2010 from $72 billion in 2004--and is projected to reach $173 billion by 2020. Rising costs are making cancer care less affordable for patients and their families and are creating disparities in patients' access to high-quality cancer care. There also are growing shortages of health professionals skilled in providing cancer care, and the number of adults age 65 and older--the group most susceptible to cancer--is expected to double by 2030, contributing to a 45 percent increase in the number of people developing cancer. The current care delivery system is poorly prepared to address the care needs of this population, which are complex due to altered physiology, functional and cognitive impairment, multiple coexisting diseases, increased side effects from treatment, and greater need for social support. Delivering High-Quality Cancer Care: Charting a New Course for a System in Crisis presents a conceptual framework for improving the quality of cancer care. This study proposes improvements to six interconnected components of care: (1) engaged patients; (2) an adequately staffed, trained, and coordinated workforce; (3) evidence-based care; (4) learning health care information technology (IT); (5) translation of evidence into clinical practice, quality measurement and performance improvement; and (6) accessible and affordable care. This report recommends changes across the board in these areas to improve the quality of care. Delivering High-Quality Cancer Care: Charting a New Course for a System in Crisis provides information for cancer care teams, patients and their families, researchers, quality metrics developers, and payers, as well as HHS, other federal agencies, and industry to reevaluate their current roles and responsibilities in cancer care and work together to develop a higher quality care delivery system. By working toward this shared goal, the cancer care community can improve the quality of life and outcomes for people facing a cancer diagnosis. **Frontiers of Astrobiology Cambridge University Press** *Astrobiology is an exciting interdisciplinary field that seeks to answer one of the most important and profound questions: are we alone? In this volume, leading international experts explore the frontiers of astrobiology, investigating the latest research questions that will fascinate a wide interdisciplinary audience at all levels. What is the earliest evidence for life on Earth? Where are the most likely sites for life in the Solar System? Could life have evolved elsewhere in the Galaxy? What are the best strategies for detecting intelligent extraterrestrial life? How many habitable or Earth-like exoplanets are there? Progress in astrobiology over the past decade has been rapid and, with evidence accumulating that Mars once hosted standing bodies of liquid water, the discovery of over 500 exoplanets and new insights into how life began on Earth, the scientific search for our origins and place in the cosmos continues.* **Chasing My Cure A Doctor's Race to Turn Hope into Action; A Memoir Ballantine Books** *LOS ANGELES TIMES AND PUBLISHERS WEEKLY BESTSELLER • The powerful memoir of a young doctor and former college athlete diagnosed with a rare disease who spearheaded the search for a cure—and became a champion for a new approach to medical research. “A wonderful and moving chronicle of a doctor’s relentless pursuit, this book serves both patients and physicians in demystifying the science that lies behind medicine.”—Siddhartha Mukherjee, New York Times bestselling author of The Emperor of All Maladies and The Gene David Fajgenbaum, a former Georgetown quarterback, was nicknamed the Beast in medical school, where he was also known for his unmatched mental stamina. But things changed dramatically when he began suffering from inexplicable fatigue. In a matter of weeks, his organs were failing and he was read his last rites. Doctors were baffled by his condition, which they had yet to even diagnose. Floating in and out of consciousness, Fajgenbaum prayed for a second chance, the equivalent of a dramatic play to second the game into overtime. Miraculously, Fajgenbaum survived—only to endure repeated near-death relapses from what would eventually be identified as a form of Castleman disease, an extremely deadly and rare condition that acts like a cross between cancer and an autoimmune disorder. When he relapsed while on the only drug in development and realized that the medical community was unlikely to make progress in time to save his life, Fajgenbaum turned his desperate hope for a cure into concrete action: Between hospitalizations he studied his own charts and tested his own blood samples, looking for clues that could unlock a new treatment. With the help of family, friends, and mentors, he also reached out to other Castleman disease patients and physicians, and eventually came up with an ambitious plan to crowdsource the most promising research questions and recruit world-class researchers to tackle them. Instead of waiting for the scientific stars to align, he would attempt to align them himself. More than five years later and now married to his college sweetheart, Fajgenbaum has seen his hard work pay off: A treatment he identified has induced a tentative remission and his novel approach to collaborative scientific inquiry has become a blueprint for advancing rare disease research. His incredible story demonstrates the potency of hope, and what can happen when the forces of determination, love, family, faith, and serendipity collide. Praise for Chasing My Cure “A page-turning chronicle of living, nearly dying, and discovering what it really means to be invincible in hope.”—Angela Duckworth, #1 New York Times bestselling author of Grit “[A] remarkable memoir . . . Fajgenbaum writes lucidly and movingly . . . Fajgenbaum’s stirring account of his illness will inspire readers.”—Publishers Weekly* **Image-Guided IMRT Springer Science & Business Media** *Intensity-modulated radiation therapy (IMRT), one of the most important developments in radiation oncology in the past 25 years, involves technology to deliver radiation to tumors in the right location, quantity and time. Unavoidable irradiation of surrounding normal tissues is distributed so as to preserve their function. The achievements and future directions in the field are grouped in the three sections of the book, each suitable for supporting a teaching course. Part 1 contains topical reviews of the basic principles of IMRT, part 2 describes advanced techniques such as image-guided and biologically based approaches, and part 3 focuses on investigation of IMRT to improve outcome at various cancer sites.* **Adenocarcinoma of the Esophagogastric Junction Springer Science & Business Media** *Among malignant tumors, adenocarcinomas of the esophagogastric junction show the highest increase in incidence over the past three decades in Western industrialized countries. This special volume, with contributions from experts in the field, covers all aspects of the disease. Etiology, pathogenesis, classification, and clinical staging are discussed, and there is special emphasis on state of the art treatment techniques. The latter range from endoscopic mucosal resections or limited surgical resections for early cancers to multimodality treatment options for locally advanced tumors. Emerging quality issues in surgical management are addressed. Detailed attention is also paid to other important recent developments, including molecular response prediction, early metabolic response evaluation by PET and PET-CT, the diagnosis of micrometastases, and the use of sentinel node technology. This volume will be of interest to all clinicians concerned with the diagnosis and management of this malignancy.* **Accuracy Requirements and Uncertainties in Radiotherapy** *Accuracy requirements in radiation oncology have been defined in multiple publications; however, these have been based on differing radiation technologies. In the meantime, the uncertainties in radiation dosimetry reference standards have been reduced and more detailed patient outcome*

data are available. No comprehensive literature on accuracy and uncertainties in radiotherapy has been published so far. The IAEA has therefore developed a new international consensus document on accuracy requirements and uncertainties in radiation therapy, to promote safer and more effective patient treatments. This publication addresses accuracy and uncertainty issues related to the vast majority of radiotherapy departments including both external beam radiotherapy and brachytherapy. It covers clinical, radiobiological, dosimetric, technical and physical aspects. **Management of Endometrial Cancer Springer** *This practical reference book provides up-to-date, evidence-based multidisciplinary guidelines on the epidemiology, biology, diagnosis, and treatment of endometrial cancer. Individual chapters focus on topics such as hormonal interactions, cancer prevention, genetic classification and its clinical applications. Recent advances in diagnostic methods are described. The treatment-oriented chapters include coverage of the roles of lymphadenectomy and sentinel node dissection, surgical complications, radiation techniques, and chemotherapy in early-stage disease. Treatment options in advanced disease, including hormonal therapy and targeted therapy, are considered separately, as is the management of rare tumor types. The authors are international key opinion leaders. Summaries of the ESMO/ESGO/ESTRO guidelines on management are included. Each clinical chapter ends with a summary of recommendations with the level of evidence.* **Primer on Radiation Oncology Physics Video Tutorials with Textbook and Problems CRC Press** *Gain mastery over the fundamentals of radiation oncology physics! This package gives you over 60 tutorial videos (each 15-20 minutes in length) with a companion text, providing the most complete and effective introduction available. Dr. Ford has tested this approach in formal instruction for years with outstanding results. The text includes extensive problem sets for each chapter. The videos include embedded quizzes and "whiteboard" screen technology to facilitate comprehension. Together, this provides a valuable learning tool both for training purposes and as a refresher for those in practice. Key Features A complete learning package for radiation oncology physics, including a full series of video tutorials with an associated textbook companion website Clearly drawn, simple illustrations throughout the videos and text Embedded quiz feature in the video tutorials for testing comprehension while viewing Each chapter includes problem sets (solutions available to educators)* **Practical Radiotherapy Planning Fourth Edition CRC Press** *Planning is a critical stage of radiotherapy. Careful consideration of the complex variables involved and critical assessment of the techniques available are fundamental to good and effective practice. First published in 1985, Practical Radiotherapy Planning has, over three editions, established itself as the popular choice for the trainee raditation oncologist and radiographer, providing the 'nuts and bolts' of planning in a practical and accessible manner. This fourth edition encompasses a wealth of new material, reflecting the radical change in the practice of radiotherapy in recent years. The information contained within the introductory chapters has been expanded and brought up to date, and a new chapter on patient management has been added. CT stimulators, MLC shieldings and dose profiles, principles of IMRT, and use of MRI, PET and ultrasound are all included, amongst other new developments in this field. The aim of the book remains unchanged. Complexity of treatment planning has increased greatly, but the fourth edition continues to emphasise underlying principles of treatment that can be applied for conventional, conformal and novel treatments, taking into account advances in imaging and treatment delivery.* **Radiobiology for the Radiologist Lippincott Williams & Wilkins** *In print since 1972, this seventh edition of Radiobiology for the Radiologist is the most extensively revised to date. It consists of two sections, one for those studying or practicing diagnostic radiolo, nuclear medicine and radiation oncology; the other for those engaged in the study or clinical practice of radiation oncology--a new chapter, on radiologic terrorism, is specifically for those in the radiation sciences who would manage exposed individuals in the event of a terrorist event. The 17 chapters in Section I represent a general introduction to radiation biology and a complete, self-contained course especially for residents in diagnostic radiology and nuclear medicine that follows the Syllabus in Radiation Biology of the RSNA. The 11 chapters in Section II address more in-depth topics in radiation oncology, such as cancer biology, retreatment after radiotherapy, chemotherapeutic agents and hyperthermia. Now in full color, this lavishly illustrated new edition is replete with tables and figures that underscore essential concepts. Each chapter concludes with a "summary of pertinent conclusions" to facilitate quick review and help readers retain important information.* **Gerontology and Leadership Skills for Nurses Delmar Pub** *This second edition text is designed to prepare nursing students to be advocates for the aging population in all practice settings. Information on demographics, active and dependent aging, and leadership and management skills has been expanded. More ethical issues are also covered in this edition, such as living wills, guardianship, and power of attorney. An instructor's guide is also available.* **Hepatobiliary Cancer Springer Science & Business Media** *When one deals with cancer, the hepatobiliary malignancies present a chal lenge to the oncologists that can be characterized as a series of unsolved clinical and biological dilemmas. Liver metastases from colorectal and other gastrointestinal malignancies, hepatocellular carcinoma, cholangiocar cinoma, and gall bladder cancer present an array of problems but have two features in common. These are high morbidity and mortality with an overall poor result from treatment. Why is it that hepatobiliary cancer carries with it such a dismal prognosis? First of all, these diseases present, for the most part, in an advanced state. To this point in time the oncologist has had no help from early diagnosis or screening. Only the occasional patient followed by ultrasound or a tumor marker has the disease diagnosed in an asymptomatic state. By the time these diseases become symptomatic, curative treatment options have usually disappeared. Evolution has placed the liver in a protected position in order to avoid injury to the soft parenchyma. As with many other internal organs, the nerve supply is extremely limited. These two anatomic features result in a great lack of early warning signs of cancer.* **Controversies in Radiation Oncology Springer** *This book addresses key issues of controversy in radiation oncology for each disease site, with expert commentaries from leading authorities in the field. It identifies areas of confusion arising from discrepant data in the literature regarding certain clinical scenarios for different diseases and presents high-level evidence on each issue with a view to fostering best practice. Controversies in Radiation Oncology will serve as a very useful resource for busy radiation oncology physicians, practitioners, and trainees/residents/fellows seeking to utilize evidence in the literature to guide the management of radiation therapy patients.* **Principles and Practice of Radiation Therapy Elsevier Health Sciences** *Learn everything you need to know about radiation therapy with the only comprehensive text written for radiation therapy students by radiation therapists. This book is designed to help you understand cancer management, improve clinical techniques for delivering doses of radiation, and apply complex concepts to treatment planning and delivery. This edition features enhanced learning tools and thoroughly updated content, including three new chapters to inform you of increasingly important technologies and practices. The up-to-date and authoritative coverage of this text make it a resource you'll want to consult throughout your radiation therapy courses and beyond. Complete coverage of radiation therapy provides all introductory content plus the full scope of information on physics, simulation, and treatment planning.*

Contributions from a broad range of practitioners bring you the expertise of radiation therapists, physicians, nurses, administrators, and educators who are part of cancer management teams. Chapters on image guided radiation therapy, intensity modulated radiation therapy, and CT simulation keep you up-to-date with emerging technologies. Color inserts show significant procedures and imaging technologies clearly. **Multimodal Concepts for Integration of Cytotoxic Drugs Springer** *The first part of this book summarizes the rationale and the preclinical data for combined treatment with ionizing radiation and pharmaceutical agents. Individual chapters focus on forms of combined treatment, with due consideration being given to a range of drugs and to emerging combinations with small molecules and antibodies. The second part comprises a series of disease-specific chapters in which the clinical results of combined modality treatment are presented.*