Lung cancer is the leading cause of cancer death in the United States, but IGRT (image guided radiation therapy) offers the possibility of more aggressive and enhanced treatments. The only available source on the subject that emphasizes new imaging techniques, and provides step-by-step treatment guidelines for lung cancer, this source helps clinicians locate and target tumors with enhanced speed, improve the accuracy of radiation delivery, and correctly target cancerous masses while avoiding surrounding structures. Edited by radiation oncology experts from the renowned M.D. Anderson Cancer Center, this guide:
focuses on novel approaches using IGRT, particularly PET/CT, SPECT, 4-D CT, stereotactic body radiation therapy, IMRT and proton radiotherapy, and offers expert guidance on the dose, fractionation, target volume delineation (including recommended margins with and without respiratory gating based on our new 4-D CT study), and normal tissue tolerances stands as the first step-by-step guide for radiation oncologists to implement new image-guided techniques into their day-to-day clinical practice, and considers the practical issues of implementing these approaches into their routine helps clinicians use imaging technologies to detect changes in tumor size, shape, position, or metabolism over a course of radiotherapy treatment provides disease stage-specific treatment guidelines and clearly lays out imaging techniques serves as roadmap for future research and development

Image Guided Radiotherapy Of Lung Cancer Related Books

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This book constitutes the refereed proceedings of the International Workshop on Prostate Cancer Imaging, held in conjunction with MICCAI 2011, in Toronto, Canada, in September 2011. The 15 revised full papers presented together with 2 invited talks were carefully reviewed and selected from 19 submissions. The papers cover the clinical areas of radiology, radiation oncology, and image guided intervention, addressing topics such as prostate segmentation, multi-modal prostate registration, and comp...

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When Cancer Hits Home is the commonsense guide to common cancers. It fills the gap between the many survivor biographies and technical references in the marketplace today. Written by an oncologist who lost multiple family members to cancer, this inspirational guidebook informs and empowers in layman's terms, using minimal medical jargon. The author tackles controversial topics and gives the reader concise, actionable, and up-to-date information on strategies for reducing cancer risk and options ...

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Lung cancer is the leading cause of cancer-related deaths in the United States. Filling a gap in the literature, this resource translates recent laboratory findings into practical applications for the prevention and control of lung cancer. Featuring chapters by seasoned researchers in the field, this reference reviews current advances in imaging, drug development, molecular therapeutics, genetics, immunotherapy, and chemotherapy, to stand at the forefront of technologies for patient diagnosis an...

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More than 221,000 people will be diagnosed with lung cancer in the United States this year alone, and this book emphasizes that all patients should be well-informed decision-makers in planning their own treatment. Covering everything from risk factors to living well after cancer treatment, this pocket-sized reference includes chapters on causes of lung cancer, early detection, diagnosis and staging, and treatment. This new edition is updated with the latest patient treatment guidelines, provides...

Lung Cancer Imaging

While specialists often guide the care to lung cancer patients, it is often a general radiologist who is left to interpret studies that impact patient care and management. Lung Cancer Imaging provides a comprehensive guide to the diagnosis, staging and overview of the management of lung cancer relevant to practicing radiologists so that they can better understand the decision making issues and provide more directed and useful communication to the treating physicians. It Primary Care physicians w...

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