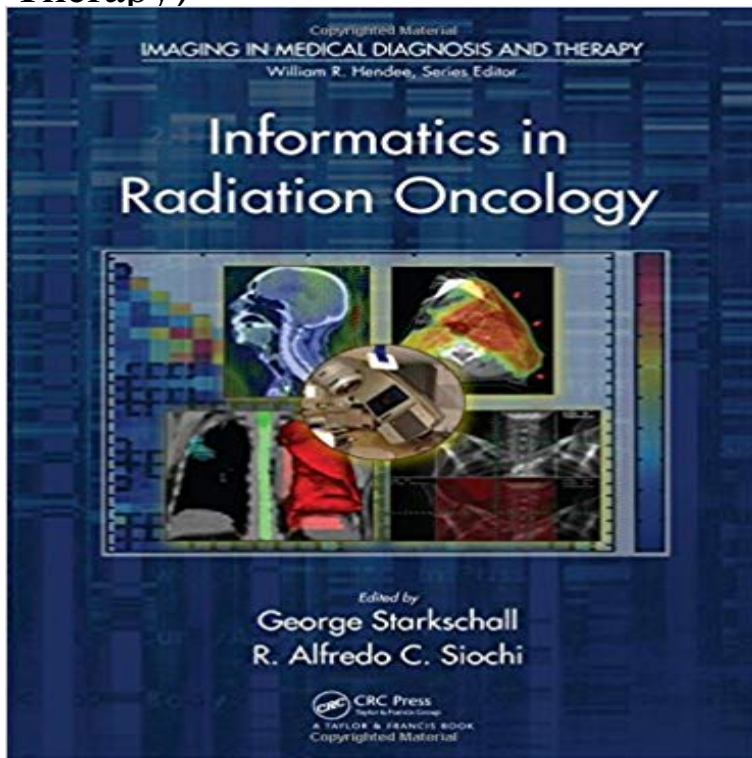


Informatics in Radiation Oncology (Imaging in Medical Diagnosis and Therapy)



Reflecting the increased importance of the collaborations between radiation oncology and informatics professionals, *Informatics in Radiation Oncology* discusses the benefits of applying informatics principles to the processes within radiotherapy. It explores how treatment and imaging information is represented, stored, and retrieved as well as how this information relates to other patient data. The book deepens your knowledge of current and emerging information technology and informatics principles applied to radiation oncology so that all the data gathered from laboratory results to medical images can be fully exploited to make treatments more effective and processes more efficient. After introducing the basics of informatics and its connection to radiation oncology, the book examines the process of healthcare delivery in radiation oncology, the challenges of managing images in radiotherapy, and the burgeoning field of radiogenomics. It then presents teaching, clinical trials, and research tools and describes open access clinical imaging archives in radiotherapy, techniques for maximizing information from multimodality imaging, and the roles of images in treatment planning. It also looks at how informatics can improve treatment planning, the safety and efficiency of delivery systems, image-guided patient positioning, and patient assessment. The book concludes with discussions on how outcomes modeling evaluates the effectiveness of treatments, how quality control informatics improves the reliability of processes, and how to perform quality assurance on the informatics tools. With contributions from a host of top international experts in radiation oncology, medical physics, and informatics, this book leads the way in moving the field forward. It encourages you to find new ways of applying informatics to radiation oncology and help your patients in their fight against

cancer.

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