

Basic Clinical Radiobiology Hardcover

Basic Clinical Radiobiology Fourth Edition Basic Clinical Radiobiology, Fifth Edition Basic Clinical Radiobiology, 3Ed Radiotherapy and Clinical Radiobiology of Head and Neck Cancer Primer of Medical Radiobiology Clinical Radiation Oncology E-Book Gunderson & Tepper's Clinical Radiation Oncology, E-Book Gunderson & Tepper's Clinical Radiation Oncology, E-Book Abeloff's Clinical Oncology E-Book Leibel and Phillips Textbook of Radiation Oncology - E-Book Basic Clinical Radiobiology Supportive Oncology E-Book Clinical Radiobiology Radiobiology for the Radiologist Radiobiology for the Radiologist Whitaker's Cumulative Book List Cancer Nursing The Cumulative Book Index 国際放射生物学 Michael C. Joiner Michael C. Joiner George Gordon Steel Loredana G. Marcu Elizabeth Latorre Travis Leonard L. Gunderson Joel E. Tepper Robert L. Foote Martin D. Abeloff Richard Hoppe Michael Jioner Mellar P. Davis A. H. W. Nias Eric J. Hall Eric J. Hall Susan L. Groenwald

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this concise but comprehensive textbook sets out the essentials of the science and clinical application of radiobiology for those seeking accreditation in radiation oncology clinical radiation physics and radiation technology fully revised and updated to keep abreast of current developments in radiation biology and radiation oncology the fourth edition continues to present in an interesting way the biological basis of radiation therapy discussing the basic principles and significant developments that underlie the latest attempts to improve the radiotherapeutic management of cancer new

topics for the fourth edition include chapters on the mechanisms of cell death biological response modifiers and biological image guided radiotherapy with major revisions to sections on the molecular basis of the radiation response tumour hypoxia and the dose rate effect a variety of new authors have contributed to this revision who together with the new editorial team have used their significant international teaching experience to ensure the content remains clear and comprehensive and as valuable to the trainee as it is to the established radiation oncologist with the fourth edition we will see the most radical change so far as professor gordon steel has retired as editor and has been replaced by bert van der kogel the current current course director for the above mentioned course plus michael joiner who is the head of the radiation biology program at the wayne state university and is the associate editor of the international journal of radiation biology

basic clinical radiobiology is a concise but comprehensive textbook setting out the essentials of the science and clinical application of radiobiology for those seeking accreditation in radiation oncology clinical radiation physics and radiation technology fully revised and updated to keep abreast of current developments in radiation biology and radiation oncology this fifth edition continues to present in an interesting way the biological basis of radiation therapy discussing the basic principles and significant developments that underlie the latest attempts to improve the radiotherapeutic management of cancer this new edition is highly illustrated with attractive 2 colour presentation and now includes new chapters on stem cells tissue response and the convergence of radiotherapy radiobiology and physics it will be invaluable for frcr clinical oncology and equivalent candidates sprs and equivalent in radiation oncology practicing radiation oncologists and radiotherapists as well as radiobiologists and radiotherapy physicists

this concise but comprehensive textbook sets out all the essentials of the science and clinical application of radiobiology for those seeking accreditation in radiation oncology the fully updated 3rd edition continues to discuss the basis of radiation therapy and presents the principles and significant scientific developments that underlie current attempts to improve the radiotherapeutic management of all cancers new topics in the 3rd edition include chapters on volume effects in normal tissues and the l q approach in clinical practice with major revisions to sections on cell proliferation radiation cytogenetics radiotherapy related morbidity hyperfractionation and individualisation of radiotherapy the book continues to provide invaluable advice for trainee and practising radiation oncologists from a team of internationally respected contributors and draws on the considerable experience of the editor gained during his time as course director of the annual estro course in basic clinical radiobiology

common factors that lead to treatment failure in head and neck cancer are the lack of tumour oxygenation the

accelerated division of cancer cells during treatment and radioresistance these tumour related challenges and possible ways to overcome them are covered in this book authored by three medical physicists and a clinical oncologist who explain how different radiobiological findings have led to the development of various treatment techniques for head and neck cancer novel treatment techniques as supported by current scientific evidence are comprehensively explored as well as the major challenges that arise in the retreatment of patients who have already undergone a form of radiotherapy for primary head and neck cancer features uses an interdisciplinary approach encompassing clinical aspects of radiotherapy radiation biology and medical physics applies content by relating all radiobiological characteristics to their respective clinical implications explains the radiobiological rationale for all previous and current clinical trials for head and neck cancer

first edition published 1976 text reference discusses the benefits and risks of ionizing radiation and includes facts learned from the accident at chernobyl along with recent information about the hiroshima and nagasaki survivors annotation copyrighted by book news inc portland or

with thorough updates throughout clinical radiation oncology provides the most comprehensive authoritative and up to date information available for treating patients with cancer from a multidisciplinary perspective this new edition edited by drs leonard l gunderson and joel e tepper examines the therapeutic management of specific disease sites based on both single modality and combined modality approaches providing you with the well rounded cutting edge guidance you need to offer the most effective treatments a consistent chapter format full color design and access to the full text at expertconsult com make reference fast and easy it is an ideal resource for mastering the latest most effective techniques and modalities deepen your knowledge with a comprehensive clinical approach to the scientific foundations of radiation oncology and general oncology as well as state of the art techniques and modalities implement a multidisciplinary team care approach to providing intricate treatment plans for patients often in conjunction with medical oncologists and surgeons broaden your understanding of the basic biology of the disease processes examine the therapeutic management of specific disease sites based on single modality and combined modality approaches quickly and easily find critical information thanks to an easily accessible full color design with over 800 color figures that clearly depict treatment techniques get broad multimodality perspectives and unique insights from a diverse team of respected editors and contributors many of whom are new to this edition affiliated with institutions across north america and internationally access the fully searchable text anywhere anytime at expertconsult com along with references additional images and tables video clips and more stay current with comprehensive updates throughout

that include a new chapter on survivorship issues and additional video clips on treatments such as prostate and penile cancer brachytherapy improve outcomes by providing the most effective treatment for each patient with expanded coverage of new modalities and treatment regimens understand and comply with the latest staging guidelines

a comprehensive multidisciplinary resource for the entire radiation oncology team gunderson tepper s clinical radiation oncology 5th edition thoroughly covers all aspects of this complex and dynamic field concise templated chapters cover the basic biology of oncologic disease processes as well as updated treatment algorithms the latest clinical guidelines and state of the art techniques and modalities more than 1 000 images detailed anatomy drawings radiographic images and more provide outstanding visual support for every area of the text divides content into three distinct sections for quick access to information scientific foundations techniques and modalities and disease sites disease site chapters include overviews summarizing the most important issues and concluding discussions on controversies and problems features new and expanded content on molecular and cellular biology and its relevance in individualized treatment approaches stereotactic radiation therapy radiosurgery proton therapy biologic therapy precision radiation therapy targeted radiation dosing guidelines for better quality of life and improved patient outcomes and more includes new chapters on radiation physics particle therapy interventional radiology radiation therapy in the elderly palliative care quality and safety and immunotherapy with radiotherapy provides guidance on single modality and combined modality approaches as well as outcome data including disease control survival and treatment tolerance includes access to videos on intraoperative irradiation prostate brachytherapy penile brachytherapy and ocular melanoma expert consulttm ebook version included with purchase this enhanced ebook experience allows you to search all of the text figures and references from the book on a variety of devices

expertly written and meticulously edited to ensure scientifically accurate accessible content throughout gunderson and tepper s clinical radiation oncology 6th edition provides complete multidisciplinary coverage of this complex and dynamic field concise templated chapters cover the basic biology of oncologic disease processes as well as updated treatment algorithms the latest clinical guidelines and state of the art techniques and modalities user friendly elements such as summarized key issues full color formatting extensive use of tables and figures and access to videos online make this reference an ideal resource for every member of the radiation oncology team divides content into three distinct sections for quick access to information scientific foundations techniques and modalities and disease sites disease site chapters include overviews summarizing the most important issues and concluding discussions on controversies and problems provides expert guidance on single modality and combined modality approaches as well as

outcome data including disease control survival and treatment tolerance contains a new chapter on artificial intelligence in radiation as well as up to date coverage of advancements in interventional radiology tumor ablation techniques and associated outcomes updated guidance on using intraoperative radiation therapy iort as a radiation dose escalation tool and increased coverage of proton therapy features more than 1 000 images detailed anatomy drawings radiographic images and more that provide outstanding visual support for every area of the text covers key topics such as brachytherapy precision radiation therapy palliative radiotherapy quality and safety image guided radiotherapy igr and stereotactic radiosurgery includes access to videos on intraoperative irradiation prostate brachytherapy penile brachytherapy and ocular melanoma any additional digital ancillary content may publish up to 6 weeks following the publication date

carrying on the tradition established by its founding editor the late dr martin Abeloff the 4th edition of this respected reference synthesizes all of the latest oncology knowledge in one practical clinically focused easy to use volume it incorporates basic science pathology diagnosis management outcomes rehabilitation and prevention all in one convenient resource equipping you to overcome your toughest clinical challenges what's more you can access the complete contents of this expert consult title online and tap into its unparalleled guidance wherever and whenever you need it most equips you to select the most appropriate tests and imaging studies for diagnosing and staging each type of cancer and manage your patients most effectively using all of the latest techniques and approaches explores all of the latest scientific discoveries implications for cancer diagnosis and management employs a multidisciplinary approach with contributions from pathologists radiation oncologists medical oncologists and surgical oncologists for well rounded perspectives on the problems you face offers a user friendly layout with a consistent chapter format summary boxes a full color design and more than 1 445 illustrations 1 200 in full color to make reference easy and efficient offers access to the book's complete contents online fully searchable from anyplace with an internet connection presents discussions on cutting edge new topics including nanotechnology functional imaging signal transduction inhibitors hormone modulators complications of transplantation and much more includes an expanded color art program that highlights key points illustrates relevant science and clinical problems and enhances your understanding of complex concepts

stay on top of the latest scientific and therapeutic advances with the new edition of leibel and phillips textbook of radiation oncology dr theodore I phillips in collaboration with two new authors drs richard hoppe and mack roach offers a multidisciplinary look at the presentation of uniform treatment philosophies for cancer patients emphasizing the treat

for cure philosophy you can also explore the implementation of new imaging techniques to locate and treat tumors new molecularly targeted therapies and new types of treatment delivery supplement your reading with online access to the complete contents of the book a downloadable image library and more at expertconsult com gather step by step techniques for assessing and implementing radiotherapeutic options with this comprehensive full color clinically oriented text review the basic principles behind the selection and application of radiation as a treatment modality including radiobiology radiation physics immobilization and simulation high dose rate and more use new imaging techniques to anatomically locate tumors before and during treatment apply multidisciplinary treatments with advice from experts in medical surgical and radiation oncology explore new treatment options such as proton therapy which can facilitate precise tumor targeting and reduce damage to healthy tissue and organs stay on the edge of technology with new chapters on igt dna damage and repair and molecularly targeted therapies

supportive oncology by drs davis feyer ortner and zimmermann is your practical guide to improving your patients quality of life and overall outcomes by integrating palliative care principles into the scope of clinical oncologic practice at all points along their illness trajectories a multidisciplinary editorial team representing the dual perspectives of palliative medicine and oncology offers expert guidance on how to effectively communicate diagnoses and prognoses with cancer patients and their families set treatment goals and manage symptoms through pharmacological therapies as well as non pharmacological therapies and counselling when appropriate integrate complementary palliative principles as early as possible after diagnosis with guidance from a multidisciplinary editorial team whose different perspectives and collaboration provide a well balanced approach effectively communicate diagnoses and prognoses with cancer patients and their families set treatment goals and manage symptoms through pharmacological therapies as well as non pharmacological therapies and counseling when appropriate improve patients quality of life with the latest information on pain and symptom management including managing side effects of chemotherapy and radiotherapy rehabilitating and counselling long term survivors and managing tumor related symptoms and other complications in the palliative care setting prescribe the most effective medications manage toxicities and deal with high symptom burdens

although intended primarily for radiotherapists and clinicians wishing to understand the biological basis of radiotherapy this should be useful for others involved in cancer treatment the emphasis is on applied radiobiology and its relevance to clinical practice recommended for frcrad part 1

the updated sixth edition of this popular text will remain the first choice for those who need current clinically relevant

information on how radiation affects the human body written by practicing active radiobiologists the book brings together basic laboratory research and practical clinical applications the easy to read text and informative illustrations ensure comprehension and summaries at the end of each chapter facilitate quick review the first section covers topics applicable to diagnostic radiology nuclear medicine and radiation oncology the second section offers material specifically for radiation oncologists this edition includes new material about doses and risks in interventional radiology and cardiology

the fifth edition of this popular text will remain the first choice for those who need current clinically relevant information on how radiation affects the human body written by a practicing active radiobiologist the book brings together basic laboratory research and practical clinical applications the single authored easy to read text and informative illustrations ensure comprehension and summaries at the end of each chapter facilitate quick review this edition has been reorganized for convenient reference brand new chapters address cancer biology the clinical response of normal tissues and gene therapy molecular biology is thoroughly integrated into this edition

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