

# Basic Clinical Radiobiology Hardcover

Basic Clinical Radiobiology, Fifth Edition  
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British Journal of Radiology  
Acta Oncologica  
Radiobiology for the Radiologist  
British Journal of Hospital Medicine  
Primer of Medical Radiobiology  
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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 LQ 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

an introduction to radiation protection is a highly readable account of the nature of the hazards presented by ionizing radiation and the methods of protection for those new to the field and for the non specialist the sixth edition of this established text takes readers through the general background of the subject the technical principles underly

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

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

describes theory and clinical practice of radiation protection and radiology also covers latest regulatory requirements discussions of legal and ethical considerations and examples of common practice mistakes

this practical up to date bedside oriented radiation oncology book encompasses the

essential aspects of the subject with coverage on radiation physics radiobiology and clinical radiation oncology the first two sections examine concepts that are crucial in radiation physics and radiobiology the third section describes radiation treatment regimens appropriate for the main cancer sites and tumor types

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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

this book explores the current difficulties and unsolved problems in the field of particle therapy and after analysing them discusses how and if innovative monte carlo approaches can be used to solve them each book chapter is dedicated to a different sub discipline including multi ion treatments flash radiotherapy laser accelerated beams nanoparticles effects binary reactions to enhance radiobiology and space related issues this is the first book able to provide a comprehensive insight into this exciting field and the growing use of monte carlo in medical physics it will be of interest to graduate students in medicine and medical physics in addition to researchers and clinical staff key features explores the exciting and interdisciplinary topic of monte carlo in particle therapy and medicine addresses common challenges in the field edited by an authority on the subject with chapter contributions from specialists

the latest edition of this text presents both theory and clinical practice of radiation protection and radiobiology from x ray production and nuclear medicine to radiation therapy updated to reflect recent regulations this text serves as a complete review for national certification exams as well as a useful review for clinical practice

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