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this handbook presents the most current information on the effects of ionizing radiation on mammalian cells with emphasis on human tissues the dose effect relationship is emphasized in a quantitative manner the book contains up to date data on the late effects of low levels of radiation on humans it also provides some of the late consequences of radiation therapy detected among cancer survivors

radiology students graduate radiographers radiology residents and practicing radiologists alike will benefit from the wealth of information to be found in radiation biology and protection this text is ideal for one semester courses designed to examine the theory of radiation biology and

protection along with the application of safety measures in the clinical setting current regulations and recommendations covered in the text are in compliance with the educational requirements established by the american society of radiologic technologists asrt

fundamentals of radiation biology presents a contemporary comprehensive review of the interactions between ionizing radiations and biological materials tracking the consequences to three inevitable endpoints cell restitution cell death or cell transformation the introductory narrative is followed by examination of larger scale phenomena including tissue responses to radiation injury organ failure modes and resultant human illness including cancer ultimately fundamentals of radiation biology considers circumstantial radiation incidents impacting biological systems including radiological terrorism and radiation pollution remediation chapters presenting an overview of carcinogenesis and radiation therapy techniques based in radiobiology discuss two significant expansions central to the concerns of the text this book takes an unprecedented narrative approach to radiobiology each chapter expands on the fundamentals surveyed previously to lead the reader steadily to a panorama of radiation biocomplexity no biological event happens in isolation actions evoke reactions that alter structures and cause living systems to adapt it also examines the components constituting mammalian radiation response machinery and correlates them with resultant physiological behaviors

this book provides a thorough yet concise introduction to quantitative radiobiology and radiation physics particularly the practical and medical application beginning with a discussion of the basic science of radiobiology the book explains the fast processes that initiate damage in irradiated tissue and the kinetic patterns in which such damage is expressed at the cellular level the final section is presented in a highly practical handbook style and offers application based discussions in radiation oncology fractionated radiotherapy and protracted radiation among others the text is also supplemented by a site

first published in 1991 this book offers a full comprehensive guide into the aspects of radiation and how it affects our bodies carefully compiled and filled with a vast repertoire of notes diagrams and references this book serves as a useful reference for students of radiology and other practitioners in their respective fields

advances in radiation biology volume 5 focuses on the various phases of development in radiation biology this book discusses the radiobiological implications of statistical variations in energy deposition by ionizing radiations fundamental physics of energy deposition and radiological assessment of nuclear power stations the environmental transport of released radionuclides effects of continuous irradiation on animal populations and radiation induced life shortening and premature aging are also deliberated this text likewise covers the production of radiation damage in a heterogeneous system radical identification by epr redistribution of cells through the division cycle and iso effect formulas this publication is valuable to radiation biologists including those interested in radiobiology

there can hardly be any doubt that radiation will continue to be an important factor in our lives present and future advances in atomic technology urgently require further work on research and development in the field of radiation biology if the maximum benefit is to be obtained at minimal risk from the various kinds of radiation that form a major by product of nuclear processes consequently it is also necessary to prepare students and younger scientists for doing such work the present book originates from teaching experience gained in lectures seminars and discussion groups started by the undersigned in 1957 and more recently held together with Drs Dertinger and Jung the friendly comments given to the German edition made us feel that it might be worth while to put the results of our efforts at the disposal of those to whom English is more familiar in agreement with the view based on well known facts that most if not all of the more striking practical achievements have resulted from patient and careful investigations into some basic problem the book aims at introducing the reader to the methods of thought and experiment used in molecular radiation biology as well as to the results obtained thereby

this text is intended as a teaching tool for an introductory course in radiation biology it is divided into two parts part i deals with radiation physics that forms the physical foundation of radiation biology in part ii the core of radiation biology is portrayed along with two chapters on cytogenetics

the biological action of radiation undoubtedly constitutes an issue of actual concern particularly after incidences like those in Harrisburg or Chernobyl these considerations however were not the reason for writing this book although it is hoped that it will also be helpful in this respect the interaction of radiation with biological systems is such an interesting research objective that to my mind no special justification is needed to pursue these problems the combination of physics chemistry and biology presents on one hand a fascinating challenge to the student on the other it may lead to insights which are not possible if the different subjects remain clearly separated special problems of radiation biology have quite often led to new approaches in physics or vice versa a recent example is microdosimetry chapter 4 biological radiation action comprises all levels of biological organization it starts with the absorption in essential atoms and molecules and ends with the development of cancer and genetic hazards to future generations the structure of the book reflects this beginning with physical and chemical fundamentals it then turns to a description of chemical and subcellular systems cellular effects form a large part since they are the basis for understanding all further responses reactions of the whole organism concentrating on mammals and especially humans are subsequently treated the book concludes with a short discussion of problems in radiation protection and the application of radiation in medical therapy these last points are necessarily short and somewhat superficial

advances in radiation biology volume 4 provides wide ranging analyses of progress in the various phases of radiation biology this book discusses the repair processes for photochemical damage in mammalian cells S phase recovery or postreplication repair enzymes involved in the repair of

dna and reinsertion of nucleotides the mutation induction in mice dominant visible mutations experimental radiation carcinogenesis and dose effect relationships are also deliberated this text likewise covers the toxicology of plutonium effects of ionizing radiation on terrestrial plant communities and radiation sensitivities of plant communities this publication is beneficial to radiation biologists as well as students and researchers conducting work on radiobiology

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

advances in radiation biology volume 14 relative radiation sensitivities of human organ systems part ii focuses on radiation sensitivities of particular human organ systems the sensitivities are then assessed based on the severity and the rapidity in which the effects of radiation manifest the opening chapter surveys the clinical and experimental data on approaches toward the prevention of bladder complications in clinical radiotherapy a discussion on hela cells which are of special importance in human cervical cancer therapy is then presented in presenting this topic this book emphasizes radiation sensitivity and radiobiology of tumors of the cervix of the female genital tract chapter 3 briefly covers imaging techniques for hypothalamic pituitary dysfunction diagnosis and introduces hormonal therapy for remarkable improvements in both physical and mental status of patients the subsequent chapters discuss basic radiobiology of the thyroid in experimental animal and the late effects of therapeutic and low level radiation in humans the radiation damages in bone and cartilage and the changes occurring in the various types of vessels during radiation therapy are also discussed chapter 7 presents the basic biology of spermatogenesis as it applies to the understanding of radiation effects this chapter also explains the studies of rodents as it applies to subhuman primates and to man moreover it considers as well the mechanisms of radiation damage to the testis as elucidated by experimental studies of rodents and subhuman primates finally it presents the limited data available on man and discusses these data in terms of the biology of the system known from experimental studies the concluding chapter describes the features of radiation induced hepatic injury ranging from asymptomatic biochemical or a radiographic abnormality to fulminant fatal hepatic failure radiation biologists will greatly benefit from this book especially those who are

involved in dose fractionation in radiation therapy

advances in radiation biology volume 9 provides an overview of the state of knowledge in radiation biology the book contains nine chapters and begins with a study on the ways in which physical and chemical agents might trigger regulatory dysfunction and how these agents might interact with each other this is followed by separate chapters on the mechanisms underlying changes in vascular function after doses of radiation in the therapeutic range and their role in the development of late effects in normal tissues the future of hypoxic cell sensitizers in the clinical setting dna strand break formation by ionizing radiation and major pathways which result in radiation induced loss of cellular proliferative capacity subsequent chapters deal with the solid state radiation chemistry of dna radiosensitivity of proliferating mammalian cells the use of microwave radiofrequency energy cancer treatment and the decline of basic radiobiology

provides an introduction to quantitative radiobiology with emphasis on practical aspects of the subject readers will gain a ready understanding of both the very fast processes which initiate damage in irradiated tissue and the kinetic patterns in which such damage is expressed at the cellular level among the topics considered are reparable damage densely ionizing radiation normal and malignant cells and whole body regulation these and other aspects of radiation biology are described in detail at a level appropriate to readers with a basic knowledge of mammalian cell biology

physical processes in radiation biology covers the proceedings of an international symposium on physical processes in radiation biology held at the kellogg center for continuing education michigan state university on may 6 8 1963 sponsored by the u s atomic energy commission the symposium aims to address the core problems of radiation biology concerning the absorption distribution and utilization of high energy packets in biological systems this book is composed of 21 chapters and begins with an introduction to the absorption excitation and transfer processes in molecular solids the subsequent chapters discuss the nature of exciton processes the mechanisms of charge transport in biological materials the interactions of fast and slow electrons with model systems the importance of liquid structures in determining the development of radiation damage and the nature of the metastable species formed the concluding chapters explore the importance of charge migration in energy transfer processes in different biological systems and the significance of higher excited levels in charge migration and energy transfer these chapters also describe the nature of the hydration of electrons and protons in aqueous systems this book will be of great value to radiation biologists biophysicists physical chemists and physicists

in late 1971 we were involved in a study of the interaction of radiation with matter and were trying to use measurements of radiation fluorescence in biological molecules to indicate how radiation affected living cells it soon became apparent that we were working in the dark the doses we used to get a significant signal were too large to be of interest for radiation biology and although the dna molecule appeared to be the

most likely target molecule we did not know which sort of events and which sort of lesions were the most important we decided to alter our approach to see if we could find any consistent mathematical order in the radiobiological dose relationships we found that cell survival curves could be very usefully described by a linear quadratic dose relationship and very soon came to the somewhat premature but as it turned out most effective conclusion that the induction of dna double strand breaks should be linear quadratic in deciding that the dna double strand break was the crucial and all important lesion we were able to associate the mathematical analysis with the biology of the cell and were able to relate known properties of the dna molecule to known radiobiological effects on the other hand we were restricted and brought from an abstract two hit lesion which could have any property one wished down to earth to a defined molecular structure of nanometer dimensions and well known functions and properties

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