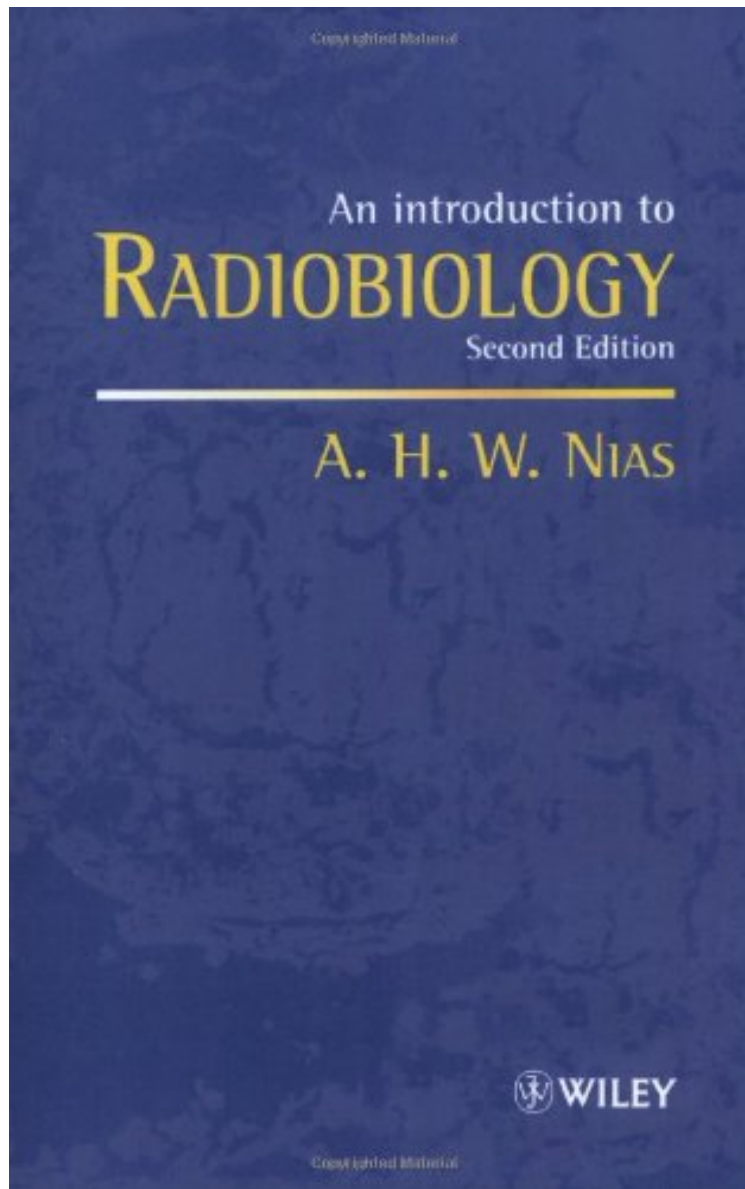


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## An Introduction to Radiobiology

A. H. W. Nias

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This new edition of A.H.W. Nias' successful book provides an updated and revised introduction to quantitative

radiobiology, particularly, to those aspects of the subject which have a practical application. Radiation is used to cure cancer but can also cause it. Radiation is also used in medical diagnosis and in nuclear power stations. In these areas, where questions of benefit and detriment arise, the biological effects of the radiation can now be predicted. There are few aspects of life where risk estimates are so firmly founded on quantitative data. This is not only because of the precision with which radiation dose can be measured but also because of the large body of radiobiological observations which have been made since X-rays were discovered. Written by a scientist with many years experience in the field, *An Introduction to Radiobiology* will appeal to a wide variety of readers who need to understand the mechanisms by which ionizing radiation causes cellular damage. It will be of interest to technologists in radiation therapy, nuclear medicine and diagnostic radiography, cancer research students and technicians, medical physicists, trainee radiotherapists and nuclear medicine specialists. Reviews of the First Edition: "In summary, this is an excellent general text that should fill an important gap in many teaching needs, especially those where the major focus is on the biological effects of radiation on humans." *Journal of the National Cancer Institute* "This is undoubtedly one of the better introductions to the subject which I have read, and I would certainly recommend it not only to beginners but also to mature students of the subject." *The British Journal of Radiology*

From the Publisher 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. From the Back Cover This new edition of A.H.W. Nias' successful book provides an updated and revised introduction to quantitative radiobiology, particularly, to those aspects of the subject which have a practical application. Radiation is used to cure cancer but can also cause it. Radiation is also used in medical diagnosis and in nuclear power stations. In these areas, where questions of benefit and detriment arise, the biological effects of the radiation can now be predicted. There are few aspects of life where risk estimates are so firmly founded on quantitative data. This is not only because of the precision with which radiation dose can be measured but also because of the large body of radiobiological observations which have been made since X-rays were discovered. Written by a scientist with many years experience in the field, *An Introduction to Radiobiology* will appeal to a wide variety of readers who need to understand the mechanisms by which ionizing radiation causes cellular damage. It will be of interest to technologists in radiation therapy, nuclear medicine and diagnostic radiography, cancer research students and technicians, medical physicists, trainee radiotherapists and nuclear medicine specialists. s of the First Edition: "In summary, this is an excellent general text that should fill an important gap in many teaching needs, especially those where the major focus is on the biological effects of radiation on humans." *Journal of the National Cancer Institute* "This is undoubtedly one of the better introductions to the subject which I have read, and I would certainly recommend it not only to beginners but also to mature students of the subject." *The British Journal of Radiology*