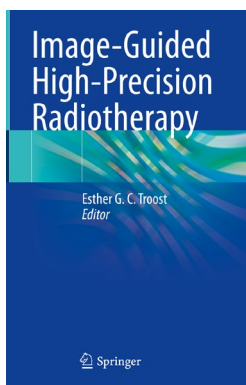


Book shelf

Image-Guided High-Precision Radiotherapy

Troost

REVIEW INFO

Publisher:
Springer

ISBN:
978-3-031-08600-7

RRP:
£119.99 / eBook £95.50

RAD Magazine price:
£95.99 / eBook £76.40*

REVIEW

Book reviewed by Professor Joe O'Sullivan, professor of radiation oncology, Queen's University Belfast, and consultant in clinical oncology, The Northern Ireland Cancer Centre, Belfast.

There have been remarkable developments in the field of radiotherapy in the past three decades including three-dimensional CT planning, intensity modulated radiation therapy, image-guided radiotherapy and stereotactic radiotherapy (SBRT/SABR).

Alongside improvements in planning software, computing power and linear accelerator technology, there has been a revolution in the ability to image tumours and normal tissues using multiple imaging modalities including PET, MR and ultrasound. These enhanced imaging capabilities have facilitated a transformation in radiotherapy by dramatically improving tumour, organ at risk delineation, on-treatment imaging and response assessment.

In a series of well-referenced and mostly well-illustrated articles, this book aims to provide the reader with an overview of precision radiotherapy, focused in particular on the role of modern imaging in the process.

Chapters on PET, MRI and ultrasound in treatment planning are accompanied by chapters on precision radiotherapy delivery and the potential role of AI in improving radiotherapy planning. There is also a chapter on image-guided brachytherapy.

Overall, I found the book to be a little unfocused and, while there was an overall theme of precision radiotherapy, many of the chapters seem to sit in isolation.

I am unclear as to who the intended audience is. Radiation oncologists will find some useful details about imaging developments pertaining to

review continues ...

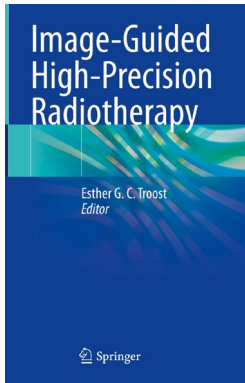
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REVIEW

... review continued

radiotherapy; however, there are other far better textbooks about precision radiotherapy aimed at expert readers available.

In my view the text would be too technical for a medical or surgical oncologist. Radiologists or nuclear medicine physicians with an oncology interest may find some of the information useful as a reference.

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