



# Comprehensive Brachytherapy: Physical and Clinical Aspects (Imaging in Medical Diagnosis and Therapy)

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Modern brachytherapy is one of the most important oncological treatment modalities requiring an integrated approach that utilizes new technologies, advanced clinical imaging facilities, and a thorough understanding of the radiobiological effects on different tissues, the principles of physics, dosimetry techniques and protocols, and clinical expertise. A complete overview of the field, **Comprehensive Brachytherapy: Physical and Clinical Aspects** is a landmark publication, presenting a detailed account of the underlying physics, design, and implementation of the techniques, along with practical guidance for practitioners.

Bridging the gap between research and application, this single source brings together the technological basis, radiation dosimetry, quality assurance, and fundamentals of brachytherapy. In addition, it presents discussion of the most recent clinical practice in brachytherapy including prostate, gynecology, breast, and other clinical treatment sites. Along with exploring new clinical protocols, it discusses major advances in imaging, robotics, dosimetry, Monte Carlo-based dose calculation, and optimization.

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### Editorial Review

#### Review

"The editors, all very accomplished and extremely knowledgeable of the field, assembled a fine collection of authors to write on the widely varied topics. ... a very good compilation on brachytherapy physics and the current state of the practice ..."

?Bruce Thomadsen, *Medical Physics*, November 2013

"... an excellent reference text which represents the current status of brachytherapy for all clinical sites and sets the scene for how it will continue to progress. Readers will be particularly pleased to find discussions on margin concepts, radiobiology and 3- and 4-D imaging modalities for planning, as well as a thorough review of a range of modern techniques. ... The amount of detail included is extensive ... Excellent references are given throughout. ... This will certainly be a key reference for today's brachytherapy centres."

?SCOPE, March 2013

"This book ... addresses the topic of brachytherapy from many vantage points, oncological, physical, and biological, and will satisfy readers from the entire radiotherapy community."

?From the Foreword by Pierre Scalliet

"Certainly, the frontier has been pushed in several directions and *Comprehensive Brachytherapy* covers some of these well... Overall, it is a very good compilation of brachytherapy physics and the current state of the practice..."

?Bruce Robert Thomadsen, Ph.D., University of Wisconsin-Madison, USA

#### About the Author

Peter Hoskin qualified at the Royal Free Hospital London and trained in Clinical Oncology at the Royal Marsden Hospital. He was appointed consultant at the Royal London Hospital in 1991 and the following year to Mount Vernon Cancer Centre with an academic post in the Department of Oncology at University College London, where he now holds a personal chair.

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