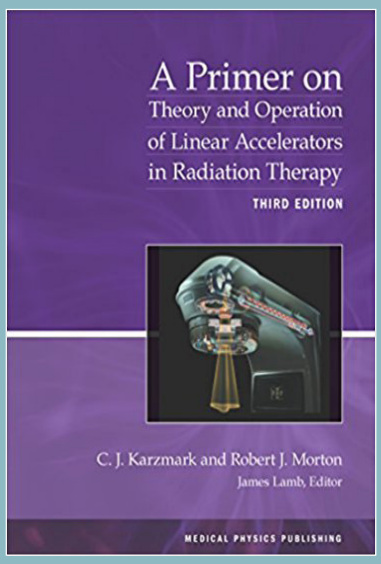
MEDICAL PHYSICS PUBLISHING

Oncology 2018

HIGHLIGHTS

NEW



A PRIMER ON THEORY AND OPERATION OF LINEAR ACCELERATORS IN RADIATION THERAPY

Third Edition

C.J. Karzmark & Robert J. Morton
Edited by James Lamb
Mar 2018 56pp, 43 Illustrations
9781930524965 Paperback
£35.95 / €40.00

Provides an overview of the components of the linear accelerator and how they function and interrelate. The auxiliary systems necessary to maintain the operation of the LINAC are also described. This third edition has been formatted for ease of reading and includes illustrations.

FORTHCOMING

THE PHYSICS & TECHNOLOGY OF RADIATION THERAPY

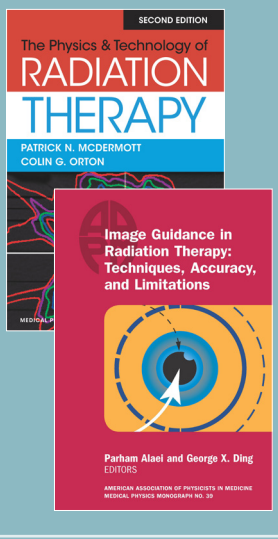
Second Edition

Patrick N. McDermott & Colin G. Orton
Aug 2018
9781930524989 Hardcover

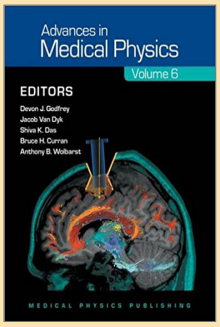
IMAGE GUIDANCE IN RADIATION THERAPY:

Techniques, Accuracy, and Limitations

Edited by Parham Alaei & George X. Ding
Jul 2018
9781936366620 Hardcover



ADVANCES IN MEDICAL PHYSICS



ADVANCES IN MEDICAL PHYSICS 2016

Volume 6

Edited by Devon J. Godfrey et al
2016 323pp
9781930524903 Paperback
£79.95 / €89.00

Medical Physics Publishing's biennial review of the treatments and techniques on the cutting edge of medical imaging and treatment, *Advances in Medical Physics* is designed to help medical physicists and technically inclined physicians stay current in medical radiation science and technology – especially in subfields of medical physics other than their own.

ADVANCES IN MEDICAL PHYSICS 2014

Volume 5

Edited by Devon J. Godfrey, Shiva K. Das & Anthony B. Wolbarst
2014 289pp
9781930524637 Hardback £84.95 / €94.00

ADVANCES IN MEDICAL PHYSICS 2012

Volume 4

Edited by Anthony B. Wolbarst et al
2012 330pp
9781930524569 Hardback £100.00 / €114.00

ADVANCES IN MEDICAL PHYSICS 2010

Volume 3

Edited by Anthony B. Wolbarst et al
2010 368pp
9781930524507 Hardback £98.50 / €109.00

ADVANCES IN MEDICAL PHYSICS 2008

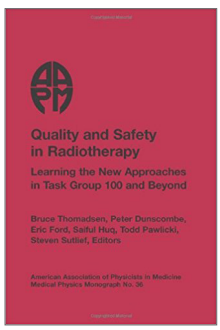
Volume 2

Edited by Anthony B. Wolbarst, Kenneth L. Mossman & William R. Hendee
2008 368pp
9781930524385 Hardback £83.95 / €93.00

ADVANCES IN MEDICAL PHYSICS 2006

Volume 1

Edited by Anthony B. Wolbarst, Robert G. Zamenhof & William R. Hendee
2006 376pp
9781930524347 Hardback £71.50 / €79.00



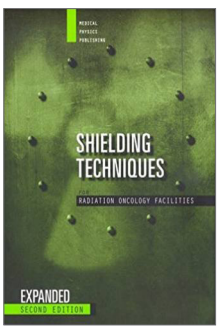
QUALITY AND SAFETY IN RADIOTHERAPY

Learning the New Approaches in Task Group 100 and Beyond

Edited by Bruce Thomadsen et al
2013 388pp
9781888340495 Hardback
£98.50 / €109.00

Medical Physics Monograph, No. 36

Radiotherapy physics has had a very long history of performing quality assurance. The goal of this book is to make new techniques accessible to the broader medical physics community. The CD included in this book contains large tables, figures, and many of the text's images in colour.

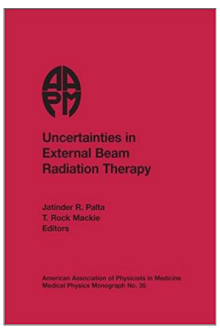


SHIELDING TECHNIQUES FOR RADIATION ONCOLOGY FACILITIES

Expanded Second Edition

Patton H. McGinley
2002 184pp
9781930524071 Hardback
£67.50 / €74.00

The second edition of this best-selling book updates the information by addressing issues posed by gamma knife rooms, CT simulator rooms, and side scatter. This is a valuable reference, both for experienced and first-time shielding designers.

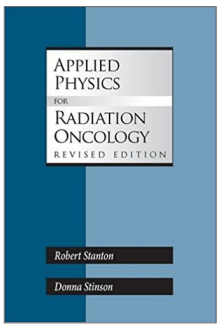


UNCERTAINTIES IN EXTERNAL BEAM RADIATION THERAPY

Edited by Jatinder R. Palta & T. Rock Mackie
2011 648pp
9781930524521 Hardback
£110.00 / €124.00

Medical Physics Monograph, No. 35

Focuses on understanding the potential sources of dosimetric uncertainties in radiotherapy; evaluating the impact of these uncertainties on the accuracy and conformity of dose delivered to patients; understanding strategies for mitigating these uncertainties; and understanding the impact of these uncertainties on QA/QM.



APPLIED PHYSICS FOR RADIATION ONCOLOGY

Revised Edition

Robert Stanton & Donna Stinson

2009 292pp

9781930524408 Paperback £93.95 / €104.00

Chapters cover treatment planning, photon and electron dosimetry, brachytherapy, methods of dose calculation, isodose curves, beam-modifying devices, patient and beam geometry, radiation protection, and clinical use and operation of linear accelerators.

CLINICAL DOSIMETRY MEASUREMENTS IN RADIOTHERAPY

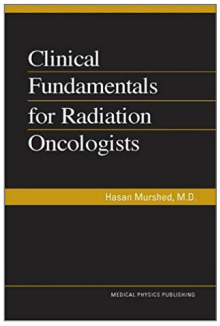
Edited by D.W.O. Rogers & Joanna E. Cygler

2009 1,112pp

9781936366118 Paperback £129.00 / €143.00

Medical Physics Monograph, No. 34

The primary purpose of this book is to help in the education of clinical physicists who have not had access to the forefront research into understanding radiation dosimetry.



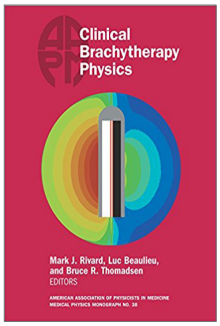
CLINICAL FUNDAMENTALS FOR RADIATION ONCOLOGISTS

Hasan Murshed

2011 680pp

9781930524439 Paperback £89.50 / €99.00

A unique resource for busy radiation oncologists, this book is a comprehensive text that includes reviews of the basic sciences underlying the field of radiation oncology.



CLINICAL BRACHYTHERAPY PHYSICS

Edited by Mark J. Rivard, Luc Beaulieu & Bruce R. Thomadsen

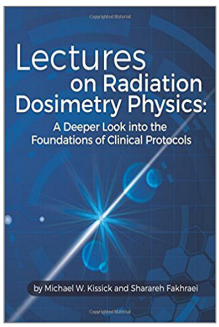
2017 372pp

9781936366576 Hardback £98.50 / €109.00

Medical Physics Monograph, No. 38

Includes chapters on HDR and LDR brachytherapy for the prostate; general planning and model-based dose calculation algorithms; intensity-modulated brachytherapy; and more.

BESTSELLER



LECTURES ON RADIATION DOSIMETRY PHYSICS

A Deeper Look into the Foundations of Clinical Protocols

Michael W. Kissick & Sharareh Fakhraei

2016 156pp

9781930524927 Paperback £44.95 / €50.00

Covers essential physics concepts for understanding and calculating problems in the physical energy deposited in matter from ionizing radiation. The focus of application is on medical uses, both imaging and radiation therapy.

OPTIMUM OVERALL TREATMENT TIME IN RADIATION ONCOLOGY

How to Stop Worrying About Time-Dose Evaluations and Learn to Love Linear Quadratics

Jack Fowler, Alexandru Dasu & Iuliana Toma-Dasu

2015 93pp

9781930524736 Paperback £35.95 / €40.00

The late John "Jack" Fowler was a busy radiation biology researcher and teacher who wrote 581 papers over the last 65 plus years. He also received nearly every honour the medical physics field can bestow. This book sums up the key concepts relating to optimum fractionation in radiation therapy that interested him throughout his life.

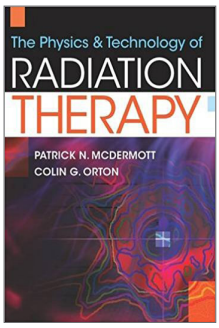
PHYSICS IN RADIATION ONCOLOGY SELF-ASSESSMENT GUIDE

Edited by Andrew Godley & Ping Xia

2015 476pp

9781620700709 Paperback £93.50 / €104.00

A comprehensive physics review for anyone in the field of radiation oncology looking to enhance their knowledge of medical physics.



THE PHYSICS & TECHNOLOGY OF RADIATION THERAPY

Patrick N. McDermott & Colin G. Orton

2010 856pp

9781930524323 Hardback £110.00 / €124.00

An introductory textbook to the physics and technology used in radiation therapy that is the outgrowth of a course taught to medical residents in radiation oncology and which has been classroom tested over many years.

BESTSELLER

PRINCIPLES AND PRACTICE OF PROTON BEAM THERAPY

Edited by Indra J. Das & Harald Paganetti

2015 828pp

9781936366439 Hardback £129.00 / €143.00

Medical Physics Monograph, No. 37

This book fills in the proton therapy gap by focusing on the physics of proton therapy, including beam production, proton interactions, biology, dosimetry, treatment planning, quality assurance, commissioning, motion management, and uncertainties.

MEDICAL DOSIMETRY CERTIFICATION STUDY GUIDE

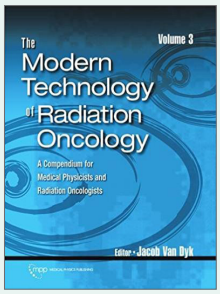
Second Edition

K.N. Govinda Rajan

2015 473pp

9781930524804 Paperback £79.95 / €89.00

Focuses on the MDCB exam's "big three" areas of treatment planning, radiation physics, and dose calculation.



THE MODERN TECHNOLOGY OF RADIATION ONCOLOGY

Volume 3

Edited by Jacob Van Dyk

2013 604pp

9781930524576 Hardback £133.00 / €148.00

The evidence is growing that the improvements in imaging, along with increasingly conformal radiation treatments, are providing significant benefits for patient outcome, both in terms of tumour control and reduced normal tissue complications.

Volume 2

Edited by Jacob Van Dyk

2005 514pp

9781930524255 Hardback £110.00 / €124.00

With more than 80 full-colour images, this second volume of *The Modern Technology of Radiation Oncology* deals with the most significant incremental advances in radiation oncology that have occurred since the publication of Volume 1 in 1999. As with the first volume, Volume 2 focuses on the design of the new technologies and how to put them into clinical practice.

Volume 1

Edited by Jacob Van Dyk

1999 1,072pp

9780944838389 Hardback £156.00 / €176.00

Describes the technological details associated with radiation oncology.

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