

Χαρακτηριστικά:

Notably, this new 75th anniversary edition features new and expanded information on:

- Novel particle and MR-linac therapies
- Radio-biology
- 4DCT imaging and Transit Dosimetry
- Clinical use of Image Guided Radiotherapy and decision-making
- Reirradiation in cancer care
- Immunotherapy
- Person-centred care

Περιεχόμενα:

International System of Units and Prefixes for Physical Quantities

SECTION 1

1. Atoms, Nuclei and Radioactivity
2. Interactions of Ionising Radiation With Matter
3. Radiation Detection and Measurement
4. Radiation Protection
5. The Radiobiology of Radiotherapy
6. Imaging With X-ray, Magnetic Resonance and Ultrasound
7. Imaging With Radionuclides
8. Therapy With Unsealed Radionuclides
9. Brachytherapy, Low-Voltage X-rays and Gamma Rays
10. Megavoltage Beams: Acceleration, Modulation and Image Guidance
11. Techniques for Accurate Planning and Delivery of Radiotherapy: Immobilisation, Volume Definition and Verification Techniques
12. External Beam Treatment Planning: Dose Calculations, Principles and Practice
13. Networking, Data, Image Handling and Computing in Radiotherapy
14. Quality Control
15. Quality Management in Radiotherapy

SECTION 2

16. Epidemiology of Cancer and Screening
17. Biological and Pathological Introduction
18. Molecular, Cellular and Tissue Effects of Radiotherapy
19. Principles of Management of Patients With Cancer
20. Chemotherapy and Hormones
21. Skin and Lip Cancer
22. Head and Neck Cancer—General Principles

23. Sinonasal, Oral, Larynx and Pharynx Cancers
24. Thyroid Cancer
25. Gastrointestinal Cancer
26. Tumours of the Thorax
27. Breast Cancer
28. Gynaecological Cancer
29. Cancer of Kidney, Bladder, Prostate, Testis, Urethra and Penis
30. Lymphoma and Disease of Bone Marrow
31. Tumours of the Central Nervous System
32. Eye and Orbit
33. Sarcomas
34. Paediatric Oncology
35. Care of Patients During Radiotherapy
36. Medical Complications of Malignant Disease and Treatment
37. Proton Beam Therapy