

## Physical Aspects of Diagnostics

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The updated edition of the second of three volumes on Medical Physics presents modern physical methods for medical diagnostics. It provides a solid background on imaging techniques that use non-ionizing probes (ultrasound, endoscopy including CLE and OCT, MRI) and imaging techniques that use ionizing radiation (X-ray radiography, CT, SPECT, PET). Radiation sources, interactions of radiation with matter and radiation protection for x-rays,  $\alpha$ -rays, protons and neutrons are presented. Some of these topics are also relevant to the therapeutic applications presented in Volume 3. NEW: highlighted boxes emphasize specific topics; math boxes explain more advanced mathematical issues; each chapter concludes with a summary of the key concepts, questions, a self-assessment of the acquired competence and exercises. The appendix provides answers to questions and solutions to exercises.

Cover

**84,95 €**

79,39 € (zzgl. MwSt.)

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**Artikelnummer:** 9783110757026**Medium:** Buch**ISBN:** 978-3-11-075702-6**Verlag:** De Gruyter**Erscheinungstermin:** 27.04.2023**Sprache(n):** Englisch**Auflage:** 2. completely revised Auflage  
2023**Serie:** Medical physics**Produktform:** Kartoniert**Gewicht:** 744 g**Seiten:** 428**Format (B x H):** 170 x 240 mm