
Contents

About the Series	vii
Acknowledgements	ix
Introduction to the Third Edition.....	xi
Contributors.....	xv
1. Fundamentals of Radiation Physics and Radioactivity.....	1
<i>P P Dendy and B Heaton</i>	
2. Production of X-Rays	23
<i>P P Dendy and B Heaton</i>	
3. Interaction of X-Rays and Gamma Rays with Matter.....	75
<i>B Heaton and P P Dendy</i>	
4. Radiation Measurement.....	105
<i>B Heaton and P P Dendy</i>	
5. The Image Receptor	133
<i>O W E Morrish and P P Dendy</i>	
6. The Radiological Image	181
<i>O W E Morrish and P P Dendy</i>	
7. Assessment of Image Quality and Optimisation	219
<i>P P Dendy and O W E Morrish</i>	
8. Tomographic Imaging with X-Rays	257
<i>S J Yates and P P Dendy</i>	
9. Special Radiographic Techniques.....	293
<i>P P Dendy and B Heaton</i>	
10. Diagnostic Imaging with Radioactive Materials.....	337
<i>F I McKiddie</i>	
11. Positron Emission Tomographic Imaging (PET).....	375
<i>P H Jarritt</i>	
12. Radiobiology and Generic Radiation Risks	397
<i>P P Dendy and B Heaton</i>	
13. Radiation Doses and Risks to Patients	427
<i>K E Goldstone and P P Dendy</i>	

14. Practical Radiation Protection and Legislation	455
<i>B Heaton and P P Dendy</i>	
15. Diagnostic Ultrasound	489
<i>A C Fairhead and T A Whittingham</i>	
16. Magnetic Resonance Imaging	563
<i>Elizabeth A Moore</i>	
17. Digital Image Storage and Handling	601
<i>G Cusick</i>	
18. Multiple Choice Questions	633
Index	671

