



# CONTENTS

<i>Contributors</i> . . . . .	v
<i>Foreword by Merrill Eisenbud</i> . . . . .	vii
<i>Preface</i> . . . . .	ix
Section 1. <i>Reference Data</i> . . . . .	1-1
Section 2. <i>Glossary of Terms</i> . . . . .	2-1
Section 3. <i>Exposure Standards and Radiation Protection Regulations</i>	3-1
Section 4. <i>Natural Radioactive Background</i> . . . . .	4-1
Section 5. <i>Ionizing Radiation</i> . . . . .	5-1
Section 6. <i>Sources of Radiation</i> . . . . .	6-1
Section 7. <i>Interaction of Radiation with Matter</i> . . . . .	7-1
Section 8. <i>Radiation Attenuation Data</i> . . . . .	8-1
Section 9. <i>Laboratory Design</i> . . . . .	9-1
Section 10. <i>Radiation Detection and Measurements</i> . . . . .	10-1
Section 11. <i>Industrial Applications</i> . . . . .	11-1
Section 12. <i>Research Applications</i> . . . . .	12-1
Section 13. <i>Medical Radiation Applications</i> . . . . .	13-1
Section 14. <i>Determination of Exposures</i> . . . . .	14-1
Section 15. <i>Nuclear Safety</i> . . . . .	15-1
Section 16. <i>Radiation Hygiene Chemistry</i> . . . . .	16-1
Section 17. <i>Equipment for Handling, Storage, and Transportation of Radioactive Materials</i> . . . . .	17-1
Section 18. <i>Surface Contamination and Decontamination</i> . . . . .	18-1
Section 19. <i>Physiological Effects of Radiation</i> . . . . .	19-1
Section 20. <i>Sampling Equipment (Dust, Gases, and Liquids)</i> . . . . .	20-1
Section 21. <i>Liquid and Solid Waste Disposal</i> . . . . .	21-1
Section 22. <i>Control of Radioactive Air Pollution</i> . . . . .	22-1
Section 23. <i>Personnel Control</i> . . . . .	23-1

*Index follows Section 23.*