## Contents of Volume 1

	Pref	ACE	VII
1	HISTORIC	AL REVIEW OF RADIATION PROTECTION AND CONTROL	
	CONCEPTS	S AND REQUIREMENTS	1
	1-1	Earliest Concepts	1
	1-2	Functions of Radiation-protection Organizations	4
		Development of Codes, Standards, and Regulations	7
		Administrative Aspects of a Radiation Protection and	
		Control Program	14
	1–5	Technical and Scientific Aspects of a Radiation Protec-	
		tion and Control Program	14
	1–6	Legal and Regulatory Aspects of a Radiation Protection	
		and Control Program	15
	1–7		17
2	RADIATIO	on Protection and Control Guides	21
_		Introduction	21
	2–2	Radiation Guides	21
		Radiation Protection and Control Measures	145
		Policy and Guidelines	164
3	Instrume	ENTS FOR RADIATION DETECTION AND MEASUREMENT	198
	3–1	Principles of Radiation Detection and Measurement	198
	3–2	Primary Radiation Instruments	215
	3-3	· · · · · · · · · · · · · · · · · · ·	223
		General Instrument-calibration Principles	253
		Instrument—Dose Response Relation	268

X CONTENTS

10	RADIOAC	TIVE-WASTE MANAGEMENT	747		
	10-1	Sources and Magnitude of Radioactive Waste	747		
	10-2		756		
	10-3	Handling of Radioactive Waste	759		
	10–4	Storage of Radioactive Waste	769		
	10-5	Disposal of Radioactive Waste	781		
	10-6 Community and Public Relations Problems				
11	RADIATIO	on Dosimetry Formulas	819		
	11-1	Gamma-radiation Dosimetry	819		
	11–2	Beta-radiation Dosimetry	876		
	11–3	Background Material for Internal Radiation Dosimetry	897		
	11–4	Internal Dosimetry	909		
12	RADIOLOG	GICAL PROBLEMS ASSOCIATED WITH HIGH-LEVEL RADIO-			
	ISOTOPE S	OURCES	930		
	12–1	Introduction	930		
	12-2 Problems Encountered in the Use of Radioisotopes for				
		SNAP Devices	955		
	12–3	Bremsstrahlung Production and Exposures	964		
	12–4	Neutron Production and Exposures	979		
	12-5	Internal Exposures	983		
	126	Specific Applications for High-level Radioisotope			
		Sources	986		
	Name	Index	998		
Subject Index					