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Nota di contenuto	Cover -- Title Page -- Copyright -- Contents -- Preface to the Third Edition -- Preface to the Second Edition -- Preface to the First Edition -- Internet Resources Within the Book -- About the Website -- Chapter 1 Radioactive Decay and the Origin of Gamma and XRadiation -- 1.1 Introduction -- 1.2 Beta Decay -- 1.2.1 or Negatron Decay -- 1.2.2 + or Positron Decay -- 1.2.3 Electron Capture (EC) -- 1.2.4 Multiple Stable Isotopes -- 1.3 Alpha Decay -- 1.4 Spontaneous Fission (SF) -- 1.5 Exotic Decay Modes -- 1.6 Gamma Emission -- 1.6.1 The Electromagnetic Spectrum -- 1.6.2 Some Properties of Nuclear Transitions -- 1.6.3 Lifetimes of Nuclear Energy Levels -- 1.6.4 Width of Nuclear Energy Levels -- 1.6.5 Internal Conversion -- 1.6.6 Abundance, Yield and Emission Probability -- 1.6.7 Ambiguity in Assignment of Nuclide Identity -- 1.7 Other Sources of Photons -- 1.7.1 Annihilation Radiation -- 1.7.2 Bremsstrahlung -- 1.7.3 Prompt GammaRays -- 1.7.4 Xrays -- 1.7.4.1 Xray Nomenclature -- 1.7.4.2 Xray Energies -- 1.7.4.3 Xrays and Identification -- 1.7.4.4 The Energy Widths of Xrays -- 1.8 The Mathematics of Decay and Growth

Sommario/riassunto

This comprehensive guide to gamma-ray spectrometry, authored by Gordon Gilmore and David Joss, provides a detailed exploration of the principles and practices involved in the field. The book covers a wide range of topics, including radioactive decay, interactions of gamma radiation with matter, and the use of semiconductor and scintillation detectors. It also delves into the electronics necessary for gamma-ray spectrometry, statistical methods for data analysis, and calibration techniques. The authors aim to provide both theoretical knowledge and practical insights, making the book suitable for researchers, practitioners, and students in nuclear physics and related disciplines. The third edition includes updated content reflecting advances in technology and methodology, ensuring its relevance to current scientific and industrial applications.