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concerning nuclear properties and structure, and general applications of radioactivity and of the nuclear force. This is followed by two chapters dealing with interactions of particles in matter, and how these characteristics are used to detect and identify such particles. A chapter on accelerators rounds out the experimental aspects of the field. The final seven chapters deal with elementary-particle phenomena, both before and after the realization of the Standard Model. This is interspersed with discussion of symmetries in classical physics and in the quantum

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domain, bringing into full focus the issues concerning CP violation, isotopic spin, and other symmetries. The final three chapters are devoted to the Standard Model and to possibly new physics beyond it, emphasizing unification of forces, supersymmetry, and other exciting areas of current research. The book contains several appendices on related subjects, such as special relativity, the nature of symmetry groups, etc. There are also many examples and problems in the text that are of value in gauging the reader's understanding of the material.

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Models Nuclear
Radiation Applications of
Nuclear Physics Energy
Deposition in Media Particle
Detection Accelerators Propert
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Elementary
Particles Symmetries Discrete
Transformations Neutral
Kaons, Oscillations, and CP
Violation Formulation of the
Standard Model Standard Model
and Confrontation with
Data Beyond the Standard
Model Readership: Advanced
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survey design to reflect
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to support decontamination
and decommissioning (D&D)
surveys, including expanded
coverage of in situ gamma
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statistics chapter that
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additional double sampling
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This guide offers students a background and basic understanding of the biophysical bases of radiation, radiation safety

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