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Basic Physics Of Radiotracers
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Basic Physics Of Radiotracers CRC
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The opportunity to present the physics of radioactive processes in some detail apart from topics such as instrumentation which conventionally compete with it for space is most welcome. The material is intended to give a fairly complete introduction to radiation physics to those who wish to

have more than a descriptive understanding of the subject. Although it is possible to work one's way through much of the subject matter without having any previous physics background, some prior acquaintance with modern physics is desirable. A familiarity with calculus and differential equations is also assumed. Volume I begins with a brief description of classical physics, its extension to special relativity and quantum mechanics, and an introduction to basic atomic and nuclear concepts. A thorough discussion

of atomic structure follows with emphasis on the theory of the multielectron atom, characteristic X-rays, and the Auger effect. Volume II treats the subjects of nuclear structure,

nuclear decay processes, the interaction of radiation with matter, and the mathematics of radioactive decay.
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