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Nota di contenuto	Intro -- Editor biographies -- Erno Sajo -- Piotr Zygmanski -- Contributors -- Introduction -- Outline placeholder -- Rationale of nanoparticle-enhanced radiotherapy -- The organization of this book -- References -- Chapter 1 The role of Auger electrons versus photoelectrons in nanoparticle dose enhancement -- 1.1 Fundamentals of the Auger process -- 1.2 The role of fluorescent photons -- 1.3 The contribution of Auger electrons and photoelectrons to dose -- 1.4 Angular anisotropy of electron emission from the GNP -- 1.5 Conclusions -- References -- Chapter 2 Deterministic computation benchmarks of nanoparticle dose enhancement-part I. Nanometer scales -- 2.1 Perspectives -- 2.2 The radiation transport basis of high-Z nanoparticle dose enhancement by x-rays -- 2.3 Deterministic radiation transport computations -- 2.4 The Green's function of dose

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## Sommario/riassunto

The central purpose of nanoparticle enhanced radiotherapy (NPRT) is to more precisely control where the radiation dose is to be delivered, desirably with subcellular precision. The contents of this text covers the rationale and fundamental principles of NPRT, optimal nanoparticle size, concentrations and clinical applications. This volume will serve as

a resource for researchers, educators and industry.

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