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Nota di contenuto	Intro -- Preface -- Contents -- About the Editors -- Section Editors -- Contributors -- Part I: Theory, Modeling, and Synthesis -- 1 Nanotechnology and Medical Applications -- Introduction -- Nanomaterials for Drug Delivery and Cancer Therapy -- Gene Delivery-Based Nanomedicine -- Nanomaterial-Based Nanocarriers -- Carbon Nanomaterials -- Functionalized and Non-functionalized Carbon Nanomaterials for Delivery Process -- Magnetic Nanoparticles for Delivery Process -- Metal Nanoparticles for Delivery Process -- Nanomaterials in Tissue Engineering -- Materials Used for Nanostructured Scaffolds -- Electrospun Scaffolds -- Hydrogel-Based Scaffolds -- Nanomaterials Used for Detection -- Nanomaterials for Detection of Pathogens -- Nanomaterials for Detection of Proteins -- Nanomaterials Used in Diagnostics and Therapy -- Future of Nanomedicine -- Conclusion -- References -- 2 Synthesis of Iron-Cobalt Nanoalloys (ICNAs) and Their Metallic Composites -- Introduction -- Formation of ICNAs -- Anisotropy -- Oxidation Mechanism -- Preparation Techniques -- Chemical Methods -- Nanoalloys Formation Mechanism -- Sol-Gel Method -- Hydrothermal Method -- Physical Methods -- Molecular Beam Epitaxy -- Thermal Decomposition -- Mechanical Alloying -- Ball Milling -- Factors Influencing Nanoalloy Formation -- Effect of Temperature -- Effect of

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