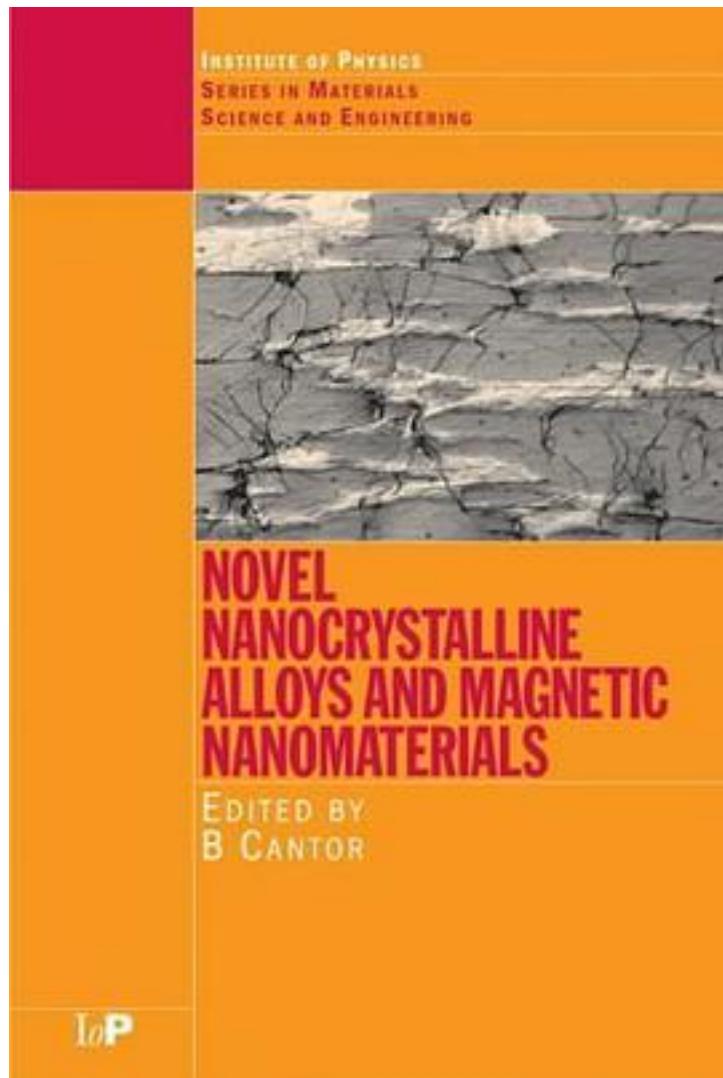


Novel Nanocrystalline Alloys and Magnetic Nanomaterials (Series in Materials Science and Engineering)



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Nanocrystalline materials exhibit remarkable structural, electrical, magnetic, and optical properties, which can be exploited in a wide variety of structural and nonstructural applications. Potential uses have been identified in the automotive, electronic, aerospace, clothing, chemical, fuel, and lubrication industries, with applications ranging from flat panel displays to medical implants. Bringing together contributions from leading researchers in academia and industry throughout Europe and Japan, "Novel Nanocrystalline Alloys and Magnetic Nanomaterials" presents a valuable overview of this fast moving field. Divided into three sections, the book first describes the fabrication and structural characterization of nanocrystalline and amorphous alloys, such as aluminium, nickel, copper, titanium, and zirconium. The second part examines novel nanocrystalline materials that include nano-optoelectronics, steels manufactured by heavy plastic deformation, and metal-ceramic and ceramic-ceramic nanocomposites. The final section reviews the current understanding of magnetic nanomaterials, including nanograined materials, Ni and Fe nanocrystals, soft magnetic Fe-M-B nanocrystalline alloys, and soft and hard ferromagnetic nanocrystalline alloys. It also explores the industrial applications of these nanomaterials, focusing on their use in the energy and telecommunications fields. Combining key coverage of topical developments with well-informed indications of potential trends, this book lays the groundwork for future advances in nanocrystalline alloys and magnetic nanomaterials.

作者介绍:

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