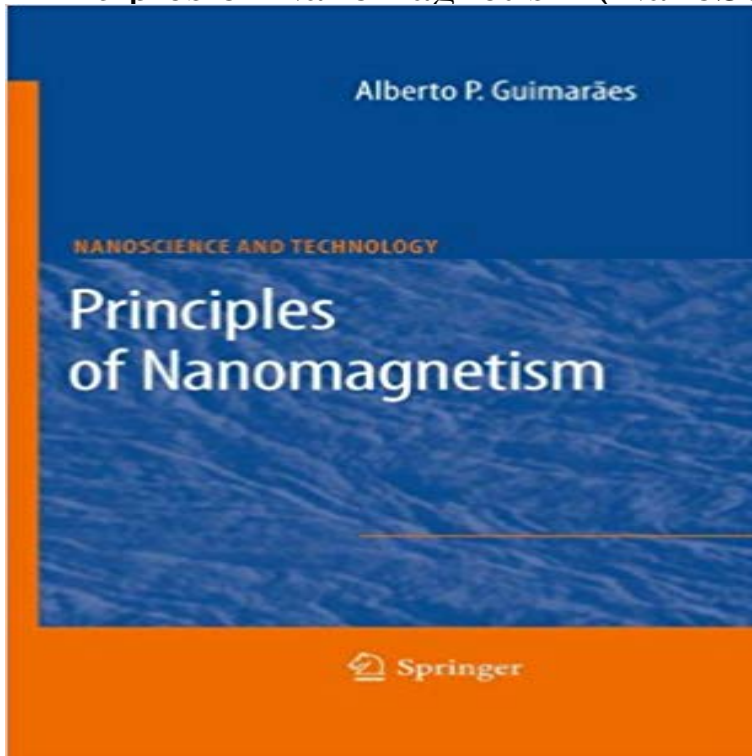


Principles of Nanomagnetism (NanoScience and Technology)



The field of Nanomagnetism is a young branch of the study of magnetic phenomena, phenomena that have been a source of amazement and stimulus for speculation for more than 3,000 years [1]. Nanomagnetism, despite being a young area, has already affected every sphere of human activity, through its fundamental contribution to make the computer an ubiquitous instrument for communication, control of industrial processes, medical diagnosis, scientific investigation, or leisure. The studies of particulate and thin film magnetic media and other related questions led to improvements that have multiplied, in five decades, the amount of data that can be encoded into a unitary area by some 50 million times. The 2007 Nobel Prize in Physics, awarded to Albert Fert and Peter Grunberg, is an important recognition of the extraordinary achievements of the research in Nanomagnetism. The unfolding revolution brought about by Spintronics is intimately connected, and enhances the relevance of these developments. Nanomagnetism already encompasses a very wide range of remarkable properties and phenomena, as illustrated in the case of thin films, for example, by the volumes of the series on Ultrathin Magnetic Structures [2].

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