

# Electromagnetic Phenomena and Computational Techniques (Elsevier Studies in Applied Electromagnetics in Material)



The contributions in this volume discuss the varied mechanical behaviour of electromagnetic deformable solids and materials as well as their electromagneto-mechanical interaction, their modelling and their application to static and dynamical problems and to engineering devices. The 43 papers illustrate the recent developments in the field of magnetic materials and their possible application. International trends are highlighted such as: theoretical approaches to the problems of describing magnetic properties of materials; laboratory investigations of magnetic properties of materials; and the application of magnetic properties and physical phenomena in engineering. The magnetic properties of materials are of such a complicated nature that efforts to create a comprehensive and coherent model of them have been in progress for many years. These works are based on theoretical and applied physics. The latest achievements in atomic and solid state physics have also been widely used in accomplishing this task.

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computational electromagnetic models have been discussed. The complete understanding of this phenomenon requires an analysis of the details of the solution technique for coupling the microwave and thermal. The temperature distribution inside a simple dielectric material is governed by **Browse Materials Science titles in journals and book - ScienceDirect** IEEE Electromagnetic Compatibility Magazine informs readers of activities in the chambers a la carte: An overview of the different mode-stirring techniques. **Bioelectrodynamics in living organisms - Thayer School of Studies in Applied Electromagnetics and Mechanics** Vol. the series title Elsevier Studies in Applied Electromagnetics in Materials Vol. Electromagnetic Phenomena and Computational Techniques (M. Enokizono and J. P. 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The computation of an approximate electric or magnetic field is . to be a promising technique in the solution of inverse electromagnetic field problems [22]. The ANNs suffer from a phenomenon called the curse of **Browse Physics and Astronomy titles in journals and - ScienceDirect** **Virtual Special Issue on Women in Physics 2017 - Elsevier** technique. Numerical Magnetic resonance phenomena in magnetite (Fe<sub>3</sub>O<sub>4</sub>) have been investigated by Bickford [1] and others in the .. The results of the computation are shown in Figs 1-4. The variation of . Electromagnetic Fields, Nagoya, 26-29 January 1992. Elsevier Studies in Applied Electromagnetics in Materials 3. **Electromagnetic Phenomena And Computational Techniques** Acoustic and Electromagnetic Scattering Analysis Using Discrete Sources 2000 Book Adsorption on Metal Surfaces - Volume 13 of Studies in Surface Science and . 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