Record Nr. UNINA9910779511703321 **Titolo** Magnetic nanoparticles [[electronic resource]]: properties, synthesis and applications / / Beate Acklin and Edon Lautens, editors Pubbl/distr/stampa New York,: Nova Science Publishers, c2012 **ISBN** 1-61942-445-2 Descrizione fisica 1 online resource (336 p.) Collana Nanotechnology science and technology Physics research and technology Altri autori (Persone) **AcklinBeate** LautensEdon Disciplina 620.1/15 Soggetti Nanoparticles - Magnetic properties Nanostructures - Magnetic properties Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Note generali Description based upon print version of record. Nota di bibliografia Includes bibliographical references and index. Nota di contenuto ""MAGNETIC NANOPARTICLES ""; ""MAGNETIC NANOPARTICLES ""; ""CONTENTS"": ""PREFACE "": ""FORMULATIONS FOR LOCAL. MAGNETICALLY MEDIATED HYPERTHERMIA TREATMENT OF SOLID TUMORS ""; ""ABSTRACT ""; ""1. INTRODUCTION: UNDERSTANDING THE COMPLEXITY OF HYPERTHERMIA ""; ""1.1. Biological and Clinical Rationale for Induced Hyperthermia ""; ""1.1.1. Heat Effects and Toxicity at Cellular Level""; ""Morphostructural Changes Induced by Heat ""; ""Metabolic Effects of Heat ""; ""Heat Cytotoxicity and Thermal Dosimetry ""; ""Molecular Biology of Stress Responses: Heat Shock, Hypoxia and Connections "" ""1.2.1. Hyperthermia in Oncology """"Hyperthermia Treatment Modalities ""; ""Hyperthermia and Solid Tumor Pathophysiology""; ""Hyperthermic Therapy Combinations, Emphasis on Embolization Procedures ""; ""Hyperthermia and Immunological Considerations ""; ""1.2. Current Technical Status of Induced Hyperthermia ""; ""1.2.1. Physical Modalities for Induced Hyperthermia ""; ""1.2.2. Inductive Modalities ""; ""1.2.3. Magnetic Losses ""; ""Hysteresis Losses ""; ""Losses by Magnetic Relaxations ""; ""2. FORMULATIONS FOR LOCAL HYPERTHERMIA TREATMENT OF HARD TISSUE TUMORS "" ""2.1. Magnetic Ceramic, Glass and Glass-Ceramic Materials """"2.2.

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