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(chemo)therapeutic agents. To facilitate pharmacokinetic and biodistributional analyses, and thereby improve drug targeting to pathological sites, it would be highly useful if the circulation time and the organ accumulation of nanomedicine formulations could be visualized noninvasively in real time.

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nanomedicine, which is generally defined as the biomedical applications of nanoscience and nanotechnology.

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prevention, diagnosis and treatment of some fatal diseases. Amongst the most promising nanomaterials being developed are magnetic nanomaterials, including magnetic nanoparticles and magnetic nanosensors. Some nanomagnetic medical applications are already commercially available with more set to be released over

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before systematically discussing the individual materials, their physical and chemical principles, fabrication techniques and biomedical applications. This methodical approach allows this book to be used both as a textbook for beginners to the subject and as a convenient reference for professionals in the field. Discusses

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Annotation This resource outlines the new tools that are becoming available in nanomedicine. The book presents an integrated set of perspectives that describe where advancements are now and where they should be headed to put nanomedicine devices into applications as

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Nanomedicines and nanopharmacology is
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with new techniques and applications

under constant development. This book

will provide an overview of the chemistry

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quickly due to the increasing number of designer-made nanomaterials. These nanomaterials have the potential to manage diseases and change the way medicine is currently studied. However, the increased practice of using nanomaterials has shed light on how many concepts of nanomedicine and

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Tissue engineering involves seeding of cells on bio-mimicked scaffolds providing adhesive surfaces. Researchers though face a range of problems in generating tissue which can be circumvented by employing nanotechnology. It provides substrates for cell adhesion and

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proliferation and agents for cell growth and can be used to create nanostructures and nanoparticles to aid the engineering of different types of tissue. Written by renowned scientists from academia and industry, this book covers the recent developments, trends and innovations in the application of nanotechnologies in

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tissue engineering and regenerative medicine. It provides information on methodologies for designing and using biomaterials to regenerate tissue, on novel nano-textured surface features of materials (nano-structured polymers and metals e.g.) as well as on theranostics, immunology and nano-toxicology aspects. In the book

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also explained are fabrication techniques for production of scaffolds to a series of tissue-specific applications of scaffolds in tissue engineering for specific biomaterials and several types of tissue (such as skin bone, cartilage, vascular, cardiac, bladder and brain tissue). Furthermore, developments in nano drug delivery, gene

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and academic scientists, lab engineers, lecturers and PhD students engaged in the fields of tissue engineering or more generally regenerative medicine, nanomedicine, medical devices, nanofabrication, biofabrication, nano- and biomaterials and biomedical engineering. Provides state-of-the-art knowledge on

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how nanotechnology can help tackling
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aspects Helps scientists and lab engineers

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efficient way

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This new volume, *Nanomedicine for the Treatment of Disease: From Concept to Application*, looks at the application of nanomedicines with a particular focus on their use in the treatment of diseases. The chapters in this volume, contributed by eminent scientists, researchers, and

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the use nanomedicines for the diagnosis and treatment of a multitude various diseases and health conditions, including respiratory diseases, neurological disorders, genetic diseases, pulmonary fungal infections, neuroAIDS, cardiovascular disorders, gastric and colonic diseases, skin disorders, cancer,

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medical science. Recent advances have made it possible to analyze biological systems at cellular and subcellular levels, offering numerous promising approaches to improve medical diagnosis and therapy. It is expected that nanomedicine will have a great impact especially on drug delivery and imaging. In this context, the

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development of targeted, highly specific nanoparticles is of pivotal importance. The results of these advances will offer personalized diagnostic tools and treatments in the future. Based on the 2nd Else Kröner-Fresenius-Symposium, this book presents a broad spectrum of topics ranging from nanoscale drug delivery/drug

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design to nanotoxicity and from
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this volume will be of special interest to
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