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design principle and application of self assembled nanobiomaterials in biology and medicine discusses recent advances in science and technology using nanoscale units that show the novel concept of combining nanotechnology with various research disciplines within both the biomedical and medicine fields self assembly of molecules macromolecules and polymers is a fascinating strategy for the construction of various desired nanofabrication in chemistry biology and medicine for advanced applications it has a number of advantages 1 it is involving atomic level modification of molecular structure using bond formation advanced techniques of synthetic chemistry 2 it draws from the enormous wealth of examples in biology for the development of complex functional structures 3 it can incorporate biological structures directly as components in the final systems 4 it requires that the target self assembled structures be thermodynamically most stable with relatively defect free and self healing in this book we cover the various emerging self assembled nanostructured objects including molecular machines nano cars molecular rotors nanoparticles nanosheets nanotubes nanowires nano flakes nano cubes nano disks nanorings dna origami transmembrane channels and vesicles these self assembled materials are used for sensing drug delivery molecular recognition tissue engineering energy generation and molecular tuning provides a basic understanding of how to design and implement various self assembled nanobiomaterials covers principles implemented in the constructions of novel nanostructured materials offers many applications of self assemblies in fluorescent biological labels drug and gene delivery bio detection of pathogens detection of proteins probing of dna structure tissue engineering and many more

due to the ever increasing interest in the use of non invasive ultrasonic methods in medical diagnostics on the one hand and the specific effects of ultrasound in medical therapy on the other the questions of safety and optimal applications are topical and of great importance for this reason the symposium ultrasound interaction in biology and medicine initiated and supported by the international organization of medical physics took place the organizers were the institute of applied biophysics of the martin luther university halle saale german democratic republic in association with the society for physical and mathematical biology of the gdr along with other scientific organizations renowned and internationally noted specialists in the field of ultrasonics reported on the latest findings regarding the biological interaction of ultrasound which promised future improvements in the methods of ultrasonic diagnostics and gave and up to date insight into the biological effectiveness of ultrasound we are pleased to be able to publish selected contributions to this symposium collected in one

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