



Soft Matter Nanotechnology: From Structure to Function

Xiaodong Chen, Harald Fuchs

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The team of international authors delves beyond mere structure-making and places the emphasis firmly on imparting functionality to soft nanomaterials with a focus on devices and applications. Alongside reviewing the current level of knowledge, they also put forward novel ideas to foster research and development in such expanding fields as nanobiotechnology and nanomedicine. As such, the book covers DNA-induced nanoparticle assembly, nanostructured substrates for circulating tumor cell capturing, and organic nano field effect transistors, as well as advanced dynamic gels and self-healing electronic nanodevices.

With its interdisciplinary approach this book gives readers a complete picture of nanotechnology with soft matter.



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