

Nanotechnology safety / edited by Ramzan Asmatulu

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Abstrak

Nanotechnology is a new and emerging discipline that is multidisciplinary and interdisciplinary. The usage of nanosystems, nanomaterials, nano-devices, etc. permeates all aspects of society. Cancer targeting and curing nanosystems are being introduced into the biomedical and pharmaceutical industries; so are lightweight energy absorbing or blast-proof nanohybrid material in the aerospace, automotive and marine industries and high-efficiency energy harvesting nanomaterials, etc. Society has a vested interest in knowing how these new materials, devices and systems are changing the economy and similar landscapes. The book outlines the regulatory and environmental issues related to nanotechnology per industry, offers guidelines in assessing the risks and discusses the legal and socioeconomical issues involved. Case studies will be utilized to provide examples of the positive and negative impacts of nanotechnology.