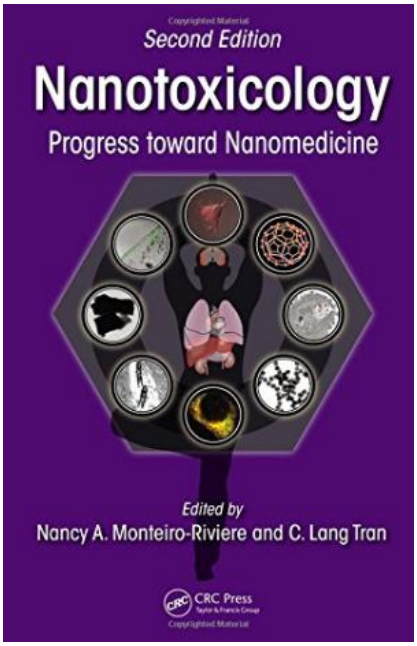

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Nanotoxicology: Progress Toward Nanomedicine (Hardback)

By -

Apple Academic Press Inc., Canada, 2014. Hardback. Book Condition: New. 2nd Revised edition. 234 x 158 mm. Language: English . Brand New Book. Since the first publication of this book in 2007, the field of nanoscience and nanomedicine continues to grow substantially. This second edition, Nanotoxicology: Progress toward Nanomedicine, enlists internationally recognized experts to document the continuing development and rationale for the safe design of engineered nanomaterials (ENM). This includes new improved characterization endpoints, screening, and detection methods for in vitro and in vivo toxicity testing. These tools also contribute greatly to nanosafety research applied to nanomedicines. Topics include * The impacts of nanotechnology on biomedicine, including functionalization for tissue-specific targeting, the biointeractions of multifunctional nanoparticle-based therapy, and the ability to control specific physicochemical properties of nanoparticles * The requirements for proper detection, measurement, and assessment both for workplace exposure and in consumer products-with a focus on potential health and safety implications * Predictive modeling, using quantitative nanostructure activity relationships to predict the pharmacokinetics and biodistribution of nanomaterials in the body * Specific methodologies, imaging, and techniques to assess nanomaterials from the manufacturing process to nanomedicine applications * Tools for assessing nanoparticle toxicity and the limitations of detection methods for...

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