



Assessing Nanoparticle Risks to Human Health (Micro and Nano Technologies)



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Assessing Nanoparticle Risks to Human Health provides a systematic overview of nanoparticle risks and considers the limitations of this paradigm in a context where extreme uncertainties prevail. As well as exploring conventional risk assessment methodology, the contributing authors investigate several alternate approaches. The adequacy of current frameworks for risk management and regulatory oversights, including corporate approaches in the US and EU, are explored, and suggestions are made as to how these frameworks can be modified to make them more efficient and effective. Presenting a coherent framework for analysis of the available information, this book presents the latest scientific understanding of the toxicity and health effects of nanoparticles, the technical issues relating to exposure assessment and management, and the ways in which the current risk paradigm can be used/modified to deal with the challenges of nanoparticle risks. All chapters of this new edition have been thoroughly updated to reflect the many changes in the field since the first edition. Additions and updates in the second edition of the book include:

- New exposure assessment strategies for nanomaterials including life cycle exposure assessment approaches and detailed information on nanoparticle exposure control and protection in the workplace.
- A state-of-the-art scientific update on the hazard and risk assessment of nanomaterials: discussion of key additional publications on the toxicology and biokinetics of nanomaterials; available data and methods to characterize the health hazard and risk of exposure to nanomaterials in the workplace; additional examples of the use of such data and methods to develop occupational safety and health guidance; and discussion of progress to date, ongoing efforts, and remaining challenges in nanomaterials hazard and risk characterization.
- New studies on the use of expert judgment in nanotechnology.
- Quantitative data from Lawrence Berkeley National Laboratory's 4-phase study.
- A description and evaluation of new CB tools and new ISO technical specifications.
- A comprehensive update of the legal frameworks in the US and the EU.

With the second edition of *Assessing Nanoparticle Risks to Human Health* Prof. Ramachandran provides researchers and practitioners producing or using nanoparticles, or those involved in nanomaterials risk assessments, technology, health science, policy, safety, environment and regulatory aspects an invaluable reference to adopt the right technologies and strategies and to comply to legal frameworks and regulations. For policy makers and advisory firms it provides the knowledge needed to advise on compliance with or development of new regulations on nanomaterials.

- Makes essential reading for risk assessment professionals, companies working with nanoparticles, nanotechnology research groups and regulators
- Explores the use of risk assessment methodologies in an occupational health setting, and their limitations
- Provides a framework for evidence-based decision making in a context with many uncertainties

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