



Atomic Nanoscale Technology in the Nuclear Industry (Hardback)

By Taeho Woo

Taylor Francis Inc, United States, 2012. Hardback. Condition: New. New.. Language: English. Brand New Book. Developments at the nanoscale are leading to new possibilities and challenges for nuclear applications in areas ranging from medicine to international commerce to atomic power production/waste treatment. Progress in nanotech is helping the nuclear industry slash the cost of energy production. It also continues to improve application reliability and safety measures, which remain a critical concern, especially since the reactor disasters in Japan. Exploring the new wideranging landscape of nuclear function, Atomic Nanoscale Technology in the Nuclear Industry details the breakthroughs in nanoscale applications and methodologies that are revolutionizing power production, biotechnology, and material science. Developments in atomic nanoscale technology have given us the ability to: Use ion beams to Investigate and optimize radiation energy losses at the nanoscopic level Assess nanoscopic safety circumstances involved in a reactor failure Analyze characteristics of nuclear spacecraft operating in the nanogravity of deep space Evaluate light collection enhancement for digital X-ray detection Apply brachytherapy using radioisotopes for cancer therapy Treat nuclear waste at the nanoscopic level Use systems-thinking decision making to analyze financial progress of nanotech in the energy industry Assess safety (and safety management methods) for...



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