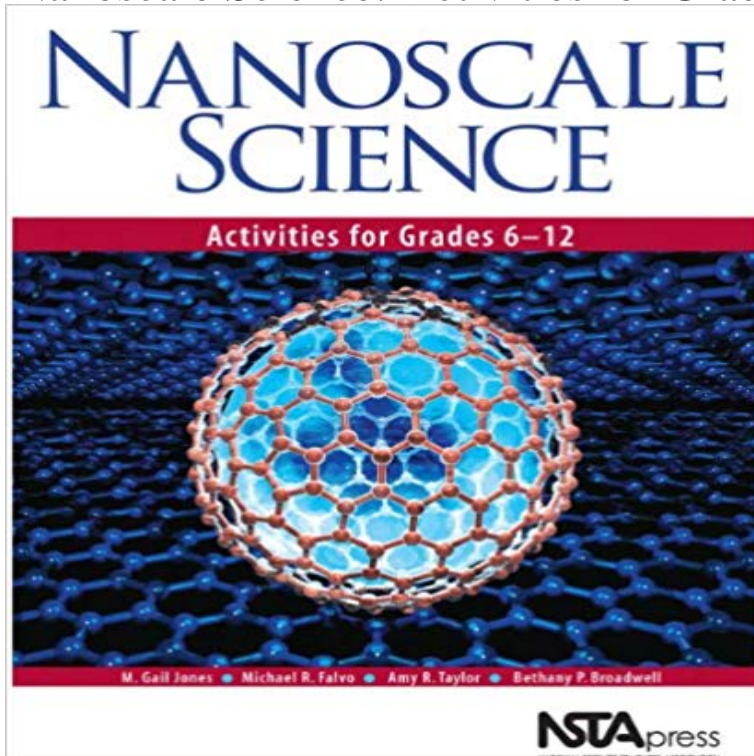


Nanoscale Science: Activities for Grades 6-12



Futurists predict that nanotechnology will be the next major scientific revolution with an even greater impact than the Industrial Revolution. Nanoscale Science will help your middle and high school students understand the big implications of tiny technology. Using guided inquiry with open-ended exploration where possible, the book's 20 investigations teach students about the unique properties and behavior of materials at the nanoscale—one-billionth of the size of a meter. The activities are organized around five themes: scale, tools and techniques, unique properties and behaviors, nanotechnology applications, and societal implications. All activities use readily available materials and provide clear background, instructions, and formative assessments. They also explore questions sure to engage both students and you, such as: Just how small is one in a billion? How might manipulating matter at the nanoscale lead to everything from stain-resistant fabrics to improved means to clean water to tumor-targeting nanoshells? And how will society change when we use nanolabels to track where people, animals, and materials move around the world? For the first time in human history, we have the ability to manipulate and build materials from the atom up. NanoScale Science, written by experts at developing effective ways to teach about nanotechnology, is a pioneering instructional guide to this important subject. Use it as a fascinating supplement to studies of biology, physics, chemistry, math, and the environment.

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