



# Systems Engineering for Microscale and Nanoscale Technologies

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## Systems Engineering for Microscale and Nanoscale Technologies

To realize the full potential of micro- and nanoscale devices in system building, it is critical to develop systems engineering methodologies that successfully integrate stand-alone, small-scale technologies that can effectively interface with the macro world.

*So how do we accomplish this?*

**Systems Engineering for Microscale and Nanoscale Technologies** is perhaps the first handbook to concentrate on the use of systems engineering at the micro and nano levels. One major roadblock to this process is a generally limited understanding of exactly how to apply systems engineering principles and management processes to the integration of newer, small-scale technologies.

Focusing on this problem of consolidating disciplines, contributors illustrate the interdependence between nanotechnology and systems engineering, making it easier for experts from these two distinct fields to understand and optimize their application of the other. To help readers from these different domains successfully combine heterogeneous, mixed-scale elements, contributors assess the evolution of micro- and nanoscale technology development and its impact on everything from laboratory concepts to actualized products in health, automotive, aerospace, communication, and many other fields. The book outlines new approaches to developing smart systems. It also clarifies the capabilities of micro- and nanotechnologies, including how they interface with each other and with macro systems.

Edited by highly regarded technologists, this introductory resource includes insightful contributions from leading minds in areas including nanotechnology, physics, systems engineering, materials science, chemistry, electrical engineering, and futurism, among others. The result is a masterfully designed, interrelated collection of multidisciplinary expertise to help readers optimize future technologies.

### About the Editors:

**M. Ann Garrison Darrin** is managing executive of the Space Department at the Applied Physics Laboratory at The Johns Hopkins University.

**Janet L. Barth** is chief of the Electrical Engineering Division (EED) at NASA's Goddard Space Flight Center (GSFC).

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