



## Buildings for Advanced Technology [

Soueid, Ahmad.,  
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Monografía

This book deals with the design and construction of buildings for nanoscale science and engineering research. The information provided in this book is useful for designing and constructing buildings for such advanced technologies as nanotechnology, nanoelectronics and biotechnology. The book outlines the technology challenges unique to each of the building environmental challenges outlined below and provides best practices and examples of engineering approaches to address them: \2022 Establishing and maintaining critical environments: temperature, humidity, and pressure \2022 Structural vibration isolation \2022 Airborne vibration isolation (acoustic noise) \2022 Isolation of mechanical equipment-generated vibration/acoustic noise \2022 Cost-effective power conditioning \2022 Grounding facilities for low electrical interference \2022 Electromagnetic interference (EMI)/Radio frequency interference (RFI) isolation \2022 Airborne particulate contamination \2022 Airborne organic and chemical contamination \2022 Environment, safety and health (ESH) considerations \2022 Flexibility strategies for nanotechnology facilities The authors are specialists and experts with knowledge and experience in the control of environmental disturbances to buildings and experimental apparatus

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