



Buildings for Advanced Technology [

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Springer International Publishing :

Imprint: Springer,
2015

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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Título: Buildings for Advanced Technology Recurso electrónico-En línea] edited by Ahmad Soueid, E. Clayton Teague, James Murday

Edición: 1st ed. 2015

Editorial: Cham Springer International Publishing Imprint: Springer 2015

Descripción física: XI, 185 p. 62 illus., 4 illus. in color. online resource

Tipo Audiovisual: Engineering Nanochemistry Nanoscale science Nanoscience Nanostructures Nanotechnology Building construction Engineering Building Physics, HVAC Nanotechnology Nanoscale Science and Technology Nanotechnology and Microengineering Nanochemistry

Mención de serie: Science Policy Reports 2213-1965

Documento fuente: Springer eBooks

Nota general: Engineering (Springer-11647)

Contenido: Introduction -- Design Criteria -- Temperature and Humidity Control -- Vibration Isolation -- Acoustic Noise -- Building Mechanical Systems Disturbances -- Electric Power Grounding and Conditioning -- EMI/RFI: Electromagnetic and Radio-Frequency Interference -- Airborne Contamination -- Bio-containment -- Case Studies and Building Statistics

Restricciones de acceso: Accesible sólo para usuarios de la UPV

Tipo recurso electrónico: Recurso a texto completo

Detalles del sistema: Forma de acceso: Web

Fuente de adquisición directa: Springer. Suscripción

ISBN: 9783319248929 978-3-319-24892-9

Autores: Soueid, Ahmad., editor Teague, E. Clayton., editor Murday, James., editor

Entidades: SpringerLink (Servicio en línea)

Enlace a formato físico adicional: Printed edition 9783319248905

Punto acceso adicional serie-Título: Science Policy Reports 2213-1965

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