

Emerging Nanotechnologies for Manufacturing (Micro & Nano Technologies)



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Reviews

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(Bernadette Baumbach)

EMERGING NANOTECHNOLOGIES FOR MANUFACTURING (MICRO & NANO TECHNOLOGIES)



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William Andrew, 2009. Gebundene Ausgabe. Condition: Neu. Neu new item; well packed; worldwide shipping; Neuware; Bestellungen bis 15 Uhr werden am gleichen Werktag verschickt. ; This book presents the most recent developments in the field of nanotechnology and nanomanufacturing -- critical knowledge for anyone who needs to keep up with the field (researchers, students, engineers, venture capitalists, etc.). Comprehensive information is provided on mixed scale manufacturing, silicon-based nanomechanical devices, lithography, chemical vapor deposition and environmental aspects. Other topics include: advanced characterization methods; fabrication and application options; direct assembly; and nanoscale machining. - Explains how to use biological pathways to produce nanoelectric devices - Presents data on new, experimental designs - Discusses the history of carbon nanotubes and how they are synthesized to fabricate novel nanostructures (incl. data on laser ablation) - Extensive use of illustrations, tables, and figures throughout ; - Nanotechnology is a technology on the verge of commercialization. In this important work, an unrivalled team of international experts provides an exploration of the emerging nanotechnologies that are poised to make the nano-revolution a reality in the manufacturing sector. From their different perspectives, the contributors explore how developments in nanotechnology are transforming areas as diverse as medicine, advanced materials, energy, electronics and agriculture. Key topics covered include: Characterization of nanostructures Bionanotechnology Nanoelectronics Micro- and nanomachining Self-assembly techniques New applications of carbon nanotubes Environmental and health impacts This book provides an important and in-depth guide to the applications and impact of nanotechnology to different manufacturing sectors. As such, it will find a broad readership, from R&D scientists and engineers to venture capitalists. About the Authors Waqar Ahmed is Chair of Nanotechnology & Advanced Manufacturing and the Director of the Institute of Advanced Manufacturing and Innovation at the University of Central Lancashire, UK. He has contributed to the wider industrial adoption of...



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