



## Emerging Nanotechnologies for Manufacturing (Micro & Nano Technologies)

By Mark J. Jackson Waqar Ahmed

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,...



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