



# Emerging Nanotechnologies for Manufacturing

By Waqar Ahmed, Mark J. Jackson, Waqar Ahmed,

Hardback. Book Condition: New. Not Signed; 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; and, 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: Wagar 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 surface coating solutions through fundamental research and modeling of gas phase processes in CVD and studies of tribological behavior. Mark J. Jackson is a Professor at the Birck Nanotechnology Center and Center for...



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