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The Nano-micro Interface: Bridging the Micro and Nano Worlds

By Werner, Matthias (Editor)

Wiley VCH, UK, 2004. Hardcover. Book Condition: New. Dust Jacket Condition: No Dust Jacket. First Edition. Available Now. Book Description: Two exciting worlds of science and technology - the nano and micro dimensions. The former is a booming new field of research, the latter the established size range for electronics, and for mutual technological benefit and future commercialization, suitable junctions need to be found. : Functional nanostructures such as DNA computers, sensors, neural interfaces, nanooptics or molecular electronics need to be wired to their ?bigger? surroundings. Coming from the opposite direction, microelectronics have experienced an unprecedented miniaturization drive in the last decade, pushing ever further down through the micro size scale towards submicron circuitry. Bringing these two worlds together is a new interdisciplinary challenge for scientists and engineers alike - recognized and substantially funded by the European Commission and other major project initiators worldwide. : This book offers a wide range of information from technologies to materials and devices as well as from research to administrative know-how collected by the editors from renowned key members of the nano/micro community. : Review: Rated ?expert? in Materials Today, December 2004 : ".the first comprehensive treatise that addresses the relationship." E-STREAMS : "....



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