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Silicon Nanomembranes

By John A. Rogers

Wiley VCH Verlag Gmbh Jun 2016, 2016. Buch. Book Condition: Neu. 251x175x25 mm. Neuware - Edited by the leaders in the field, with chapters from highly renowned international researchers, this is the first coherent overview of the latest in silicon nanomembrane research. As such, it focuses on the fundamental and applied aspects of silicon nanomembranes, ranging from synthesis and manipulation to manufacturing, device integration and system level applications, including uses in bio-integrated electronics, three-dimensional integrated photonics, solar cells, and transient electronics. The first part describes in detail the fundamental physics and materials science involved, as well as synthetic approaches and assembly and manufacturing strategies, while the second covers the wide range of device applications and system level demonstrators already achieved, with examples taken from electronics and photonics and from biomedicine and energy. 365 pp. Englisch.



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