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Low-Dimensional Semiconductors in Artificial ...

strong confined structures, low-dimensional semiconductors exhibit fairly unique electronic states that are different from those of molecular and bulk systems In fact, this is the fundamental cause of the rich potential of low-dimensional semiconductors in photosynthesis In this section, we carry out

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directions on silicon wafers (III-V, Graphene, Carbon nanotubes and semiconductor nanowires) Achieving low contact resistance to sub 16nm scale structures (graphene and carbon nanotubes) Ge dopant thermal activation is much higher than III-V process temperatures

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optical nonlinearities in low-dimensional semiconductor structures; carrier relaxat, 'y: studies in semiconductor lasers and in novel GaAs quantum-well structures; spectral hole burning and instabilities in semiconductor lasers; surface characterization of

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ties of low-dimensional, mesoscopic semiconductor structures, the heteroepitaxy of group IV and III-V semiconductors, the development of novel

methods for lateral patterning and of analytical tools for the characterization of nanometer-size structures, as well as the fab-

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IEEE TRANSACTIONS ON NANOTECHNOLOGY, VOL. 5, NO. 1 ...

NOVATIVE thermoelectric applications by utilizing low-dimensional structures, eg, nanowire, have received a great deal of attention since Hicks and Dresselhaus first proposing that low-dimensional semiconductor structures could enhance thermoelectric properties in 1993 [1], [2] It was believed that