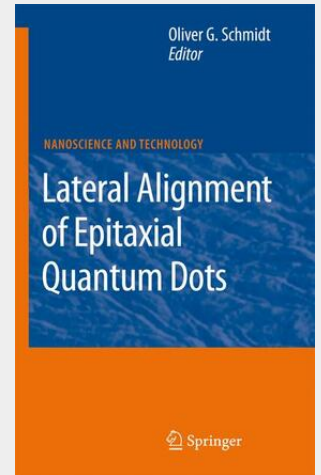


Lateral Alignment of Epitaxial Quantum Dots

Accurate positioning of self-organized nanostructures on a substrate surface can be regarded as the Achilles' heel of nanotechnology. This perception also applies to self-assembled semiconductor quantum dots. This book describes the full range of possible strategies to laterally align self-assembled quantum dots on a substrate surface, starting from pure self-ordering mechanisms and culminating with forced alignment by lithographic positioning. The text addresses both short- and long-range ordering phenomena and paves the way for the future high integration of single quantum dot devices on a single chip. Contributions by the best-known experts in this field ensure that all relevant quantum-dot heterostructures are elucidated from diverse perspectives.

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