



Intelligent Integrated Systems: Devices, Technologies, and Architectures (Pan Stanford Series on Intelligent Nanosystems)

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This book gives a state-of-the-art overview by internationally recognized researchers of the architectures of breakthrough devices required for future intelligent integrated systems. The first section highlights Advanced Silicon-Based CMOS Technologies. New device and functional architectures are reviewed in chapters on *Tunneling Field-Effect Transistors* and *3-D monolithic Integration*, which the alternative materials could possibly use in the future. The way we can augment silicon technologies is illustrated by the co-integration of new types of devices, such as molecular and resistive spintronics-based memories and smart sensors, using nanoscale features co-integrated with silicon CMOS or above it.

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