



# Future Trends in Microelectronics: Frontiers and Innovations

*Serge Luryi, Jimmy Xu, Alexander Zaslavsky*

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*Leaders in the field predict the future of the microelectronics industry*

This seventh volume of *Future Trends in Microelectronics* summarizes and synthesizes the latest high-level scientific discussions to emerge from the Future Trends in Microelectronics international workshop, which has occurred every three years since 1995. It covers the full scope of cutting-edge topics in microelectronics, from new physical principles (quantum computing, correlated electrons), to new materials (piezoelectric nanostructures, terahertz plasmas), to emerging device technologies (embedded magnetic memories, spin lasers, and biocompatible microelectronics).

An ideal book for microelectronics professionals and students alike, this volume of *Future Trends in Microelectronics*:

- Identifies the direction in which microelectronics is headed, enabling readers to move forward with research in an informed, efficient, and profitable manner
- Includes twenty-nine contributor chapters by international authorities from leading universities, major semiconductor companies, and government laboratories
- Provides a unified, cohesive exploration of various trends in microelectronics, looking to future opportunities, rather than past successes

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