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List of Acronyms; 3.1 - Introduction; 3.2 - Storage Capacitor; 3.2.1 - Example: Maximum energy stored in a capacitor; 3.3 - Electrochemical Energy: Fundamentals of Galvanic Cells; 3.3.1 - Energy Stored in the Galvanic Cell; 3.3.2 - Power Delivery by a Galvanic Cell; 3.3.3 - Current Status of Miniature Galvanic Cells; 3.3.4 - Miniature Biofuel Cells; 3.3.5 - Remarks on Biocompatibility; 3.4 - Miniature Supercapacitors; Miniature supercapacitors: Status and potential directions; 3.5 - Energy from Radioisotopes
3.5.1 - Radioisotope Energy Sources
3.5.2 - Radioisotopic Energy Conversion; 3.5.3 - Practical Miniature Radioisotope Energy Sources; 3.6 - Remarks on Energy Harvesting; 3.6.1 - Photovoltaics; 3.6.2 - Radio Frequency (RF)/Microwave Energy Harvesting; 3.6.3 - Kinetic Energy Harvesting; 3.6.4 - Thermal Energy Harvesting; 3.7 - Summary; 3.8 - Appendix. A kinetic model to assess the limits of heat removal; References; Chapter 4 - Fundamental limits for logic and memory; List of Acronyms; 4.1 - Introduction; 4.2 - Information and Information Processing; 4.3 - Basic Physics of Binary Elements
4.3.1 - Distinguishable States
4.3.2 - Energy Barrier Framework for the Operating Limits of Binary Switches; A. Limits on barrier height; B. Limits on Size; C. Limits on Speed; D. Combined Effect of Classic and Quantum Errors; 4.3.3 - A summary of device scaling limits; 4.3.4 - Charge-based Binary Logic Switch; 4.3.5 - Charge-based Memory Element; DRAM; SRAM; Floating gate/flash memory; 4.4 - System-level Analysis; 4.4.1 - Tiling Considerations: Device density; 3D Tiling of Flash Memory; 4.4.2 - Energy adjustment for system reliability; 4.4.3 - Models for Connected Binary Switches
A. Juxtaposed Switches

Sommario/riassunto

The advances in microsystems offer new opportunities and capabilities to develop systems for biomedical applications, such as diagnostics and therapy. There is a need for a comprehensive treatment of microsystems and in particular for an understanding of performance limits associated with the shrinking scale of microsystems. The new edition of *Microsystems for Bioelectronics* addresses those needs and represents a major revision, expansion and advancement of the previous edition. This book considers physical principles and trends in extremely scaled autonomous microsystems such as integrated
