

New Biology for Engineers and Computer Scientists

Aydin Tozeren, Stephen W. Byers



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Taking a system approach to expose modern biology, this book presents the fundamental system principles and parameters common to all living species. The straightforward examination begins with a presentation of molecular cell biology and progresses to the complex interrelationship between genes and proteins as observed in metabolic process, signal transduction, cell division and embryonic development. The book's unique approach provides a depiction of the human genome project, a review of high throughput biology and bioinformatic tools and a presentation of gene circuitry and pathway analysis as applied to cell division, development of embryo and metabolic pathways and expose of emerging proteomic science. The volume presents the chemistry of life, macromolecules of life, cells and their housekeeping functions, gene circuits, genomics, cell adhesion and communication, cell division and its regulation, development of multicellular organisms and large scale biology. For computer scientists, physicists, and engineers.

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