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Biological Systems Complexity and Artificial Life

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This eBook is an essential primer on systems biology for biologists and researchers having a multidisciplinary background. The volume covers a variety of theoretical models explaining enzyme kinetics, non equilibrium dynamics, cellular thermodynamics, molecular motion in cells and more.

Contents

- ▶ The Vision of Classical Molecular Biology and its Limits
- ▶ Biological Systems, Identity, Organization and Communication
- ▶ Emergence of Information in Biological Systems
- ▶ Non-Equilibrium, Enzyme Reactions, Self-Organization and Dynamic Properties
- ▶ Enzyme Activity within the Living Cell
- ▶ Thermodynamics of Energy Conversion within the Cell
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