

Thermodynamics In Biochemical Engineering

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Biochemical engineering is one of the pillars of our basic technological knowledge, with applications in the food, pharmaceutical, biotechnological and water-treatment industries. However, the understanding of the basic thermodynamics of processes that involve cells or other forms of life is still incomplete, and is under investigation in intensive research efforts.

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Thermodynamics is central to the practice of chemical engineering and to the curriculum; for example, phase equilibria is the basis for most separation and purification processes, and energy balances are needed in many areas, including reactor design.

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Thermodynamics is a branch of physics that deals with heat, work, and temperature, and their relation to energy, radiation, and physical properties of matter. The behavior of these quantities is governed by the four laws of thermodynamics which convey a quantitative description using measurable macroscopic physical quantities, but may be explained in terms of microscopic constituents by statistical mechanics. Thermodynamics applies to a wide variety of topics in science and engineering, especial

~~Thermodynamics—Wikipedia~~

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Thermodynamics studies the transformations of energy occurring in open systems. Living systems, with particular reference to cells, are complex systems in which energy transformations occur.

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