



# Problem Solving in Enzyme Biocatalysis

*Andrés Illanes, Lorena Wilson, Carlos Vera*

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Enzyme biocatalysis is a fast-growing area in process biotechnology that has expanded from the traditional fields of foods, detergents, and leather applications to more sophisticated uses in the pharmaceutical and fine-chemicals sectors and environmental management. Conventional applications of industrial enzymes are expected to grow, with major opportunities in the detergent and animal feed sectors, and new uses in biofuel production and human and animal therapy.

In order to design more efficient enzyme reactors and evaluate performance properly, sound mathematical expressions must be developed which consider enzyme kinetics, material balances, and eventual mass transfer limitations. With a focus on problem solving, each chapter provides abridged coverage of the subject, followed by a number of solved problems illustrating resolution procedures and the main concepts underlying them, plus supplementary questions and answers.

Based on more than 50 years of teaching experience, *Problem Solving in Enzyme Biocatalysis* is a unique reference for students of chemical and biochemical engineering, as well as biochemists and chemists dealing with bioprocesses.

**Contains:** Enzyme properties and applications; enzyme kinetics; enzyme reactor design and operation 146 worked problems and solutions in enzyme biocatalysis.

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