



Multiphase Bioreactor Design

Johannes Tramper

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Bioreaction engineering is fundamental to the optimization of biotechnological processes and the production of biochemicals by enzymes, microbial, plant and animal cells and higher organisms. Multiphase Bioreactor Design describes the fundamentals of bioreactors and their increasingly complex varieties. It highlights new methodologies for the analysis of multiphase bioreactors, namely hydrodynamics, image analysis and modeling. Specific chapters also provide information on the interactions between kinetic and transport phenomena, biocatalyst stability and cell physiology in non-conventional media such as organic solvents and pressurized gas phases.

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