



# Downstream Process Technology: A New Horizon In Biotechnology

*Nooralabettu Krishna Prasad*

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Today, biochemical process industry demands fast and economic processes for the partitioning and purification of biomolecules that give high yield and high purity of the product. An integral and cost intensive part of these processes is associated with downstream processing for product isolation and purification. The aim of this comprehensive text is to provide an insightful overview of the whole aspects of downstream processing for biochemical product recovery.

Intended for undergraduate and postgraduate students of biotechnology and chemical engineering, this self-contained text includes the chapters based on the recent developments in the industry and academics. It covers the importance of the downstream processing in terms of its relevancy to modern days ever-changing consumer needs, process design criteria relevance to set objectives, and physicochemical factors that help to formulate the strategy to develop a configuration among the raw material, methodology and instruments. This overview is followed by different downstream processing steps. The text concludes with the discussion on stabilization of the product to improve the shelf life of the product.

### KEY FEATURES

- Includes detailed biological, mathematical, chemical and physical aspects of downstream processing.
- Distinguishes downstream processing from analytical bioseparation.
- Contains numerous illustrations and solved problems.

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