DESCRIPTION

Cost-effective manufacturing of biopharmaceutical products is rapidly gaining in importance, while healthcare systems across the globe are looking to contain costs and improve efficiency. To adapt to these changes, industries need to review and streamline their manufacturing processes.

This two volume handbook systematically addresses the key steps and challenges in the production process and provides valuable information for medium to large scale producers of biopharmaceuticals.

It is divided into seven major parts:

- Upstream Technologies
- Protein Recovery
- Advances in Process Development
- Analytical Technologies
- Quality Control
- Process Design and Management
- Changing Face of Processing
With contributions by around 40 experts from academia as well as small and large biopharmaceutical companies, this unique handbook is full of first-hand knowledge on how to produce biopharmaceuticals in a cost-effective and quality-controlled manner.

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⚠️ ABOUT THE AUTHOR

Dr. Ganapathy Subramanian is a biotechnology consultant with over 30 years experience in industry and academia, encompassing the application and development of processing, purification methodologies, and chromatographic systems for largescale use in environmental science, food science, perfumery, cosmetics, and pharmaceuticals. He has also taught extensively in the area of food and medical technology.

A chemistry graduate from Madras, India, Dr. Subramanian was awarded his doctorate, from the University of Glasgow, for work on natural products. His main research interests lie in the utilization of natural material separation processes and bioconversions.

Dr. Subramanian has written and edited a number of books and articles in the field of biotechnology. For the last 10 years, he has been organizing conferences promoting the integration and sharing of knowledge between academia and industry.

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