

# Manufacturing of Pharmaceutical Proteins

From Technology to Economy

An expert, single-volume overview of the core processes and disciplines of biopharmaceutical production. In the newly revised Third Edition of *Manufacturing of Pharmaceutical Proteins: From Technology to Economy*, renowned chemical engineer Dr. Stefan Behme delivers a comprehensive text covering all aspects of biopharmaceutical manufacturing, including legal and regulatory considerations, production facility design, quality assurance, supply chain management, emerging market regulations, and cost control. Suitable as both a reference book and a training resource, this book extensively explores the impact of digital transformation on pharmaceutical protein manufacturers and includes a brand-new chapter dedicated to digitalization. The distinguished author provides readers with practical understanding of the terminology and principles driving the various fields involved with biotechnological production, including operations, legal, finance, and IT. He also offers:

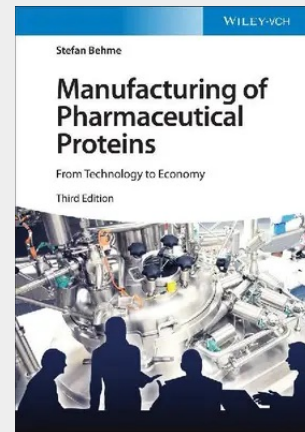
- A thorough introduction to biopharmaceutical production, including value creation, product types, and biological basics
- Comprehensive explorations of the technology of the manufacturing process and analytics
- Practical discussions of pharmacology and drug safety, quality assurance, and pharmaceutical law
- In-depth examinations of pharmaceutical protein production facilities, including facility design and the planning, construction, and commissioning of a manufacturing plant

Perfect for biotechnologists working in the pharmaceutical industry, *Manufacturing of Pharmaceutical Proteins: From Technology to Economy* will also earn a place in the libraries of pharmaceutical engineers seeking a one-stop reference for all aspects of biopharmaceutical production.

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