

# Protein Chromatography: Process Development and Scale-Up


By Giorgio Carta, Alois Jungbauer

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With its focus on process development and large-scale bioseparation tasks, this is tailor-made reading for the professional bioengineer in both the biotech and pharmaceutical industries. Following a tried-and-tested concept, this guide has been developed over several years in training courses for biotech and chemical engineers in Europe and the U.S. The first part deals with the theory, introducing chromatography and its dynamics, as well as discussing mass transfer and dispersion effects. The second part then goes on to cover equipment and protocols, determining the retention factor and HETP from isocratic and elution experiments, as well as the mass transfer and intraparticle diffusivity from batch and shallow-bed adsorption experiments.

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**Bibliography**

- Rank: #2086484 in Books
- Published on: 2010-06-08
- Original language: English
- Number of items: 1
- Dimensions: 9.70" h x .88" w x 6.95" l, 1.80 pounds
- Binding: Hardcover
- 364 pages

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### **Editorial Review**

From the Back Cover

A practice-oriented all-in-one guide that provides the necessary knowledge for effective process development in chromatographic bioseparation, both for preparative-scale and for large-scale industrial applications.

With its focus on process development and bioseparation tasks, this is tailor-made reading for the professional bioengineer in both the biotech and pharmaceutical industries. Following a tried and-tested concept, this guide has been developed over several years in training courses for biotech and chemical engineers in Europe and the U.S. Coverage begins with an overview of biomolecular properties and their relationship to downstream processing, followed by a detailed treatment of bioprocess chromatography, its dynamics, the mass transfer and dispersion effects that control its performance, the critical design and scale-up relationships, as well as the relevant stationary phases and equipment.

About the Author

Giorgio Carta received his PhD in Chemical Engineering from the University of Delaware in 1984. Since then he has been a professor in the Department of Chemical Engineering at the University of Virginia, Charlottesville (USA), where his research focuses on transport phenomena and bioseparations. He regularly organizes professional courses on various aspects of bioseparations, including a course on protein chromatography development and scale-up together with Alois Jungbauer.

Alois Jungbauer is the head of protein technology and downstream processing at the Department of Biotechnology of the University of Natural Resources and Applied Life Sciences in Vienna (Austria). For more than 20 years, Professor Jungbauer has worked in biochemical engineering, with a focus on bioseparation, where he has published widely and holds 15 patents. For over 10 years, he has organized a biennial professional course in protein chromatography focused on mass transfer, dispersion, and scale-up.

### **Users Review**

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