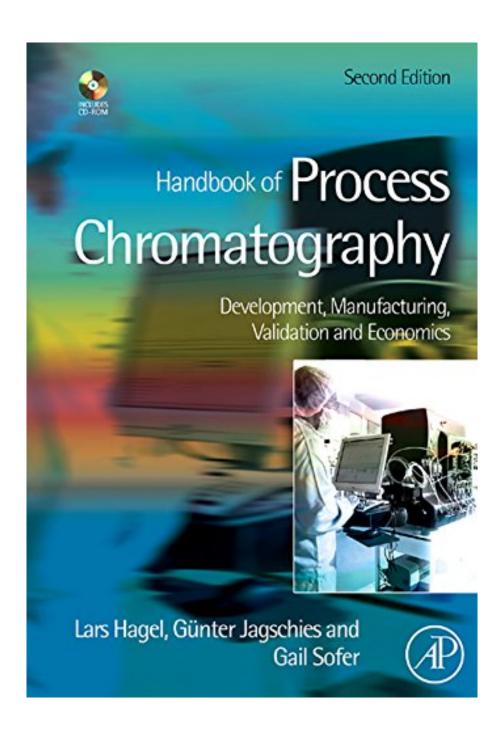


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### About the Author

Lars Hagel is a Ph.D. in analytical chemistry and also Associate Professor at the University of Uppsala. Dr. Hagel has held different management positions within the R&D department and is now a senior scientific consultant of Pharmacia Biotech. He is a member of the board for The Swedish Centre for Bioseparations, and he chairs the Centre for Bioprocess Technology. Dr. Hagel's research has focused upon practical implications of chromatography theory and he has published a vast number of papers and chapters, with special reference to gel filtration.

Gail Sofer has been consulting with biotechnology and pharmaceutical companies for the past five years through the Fast Trak Validation(r) group of PharmaciaBiotech as the Director of International Validation Development. A series of publications on validation have provided guidance to many in this arena. She is active in organizations such as PDA and ASTM.

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