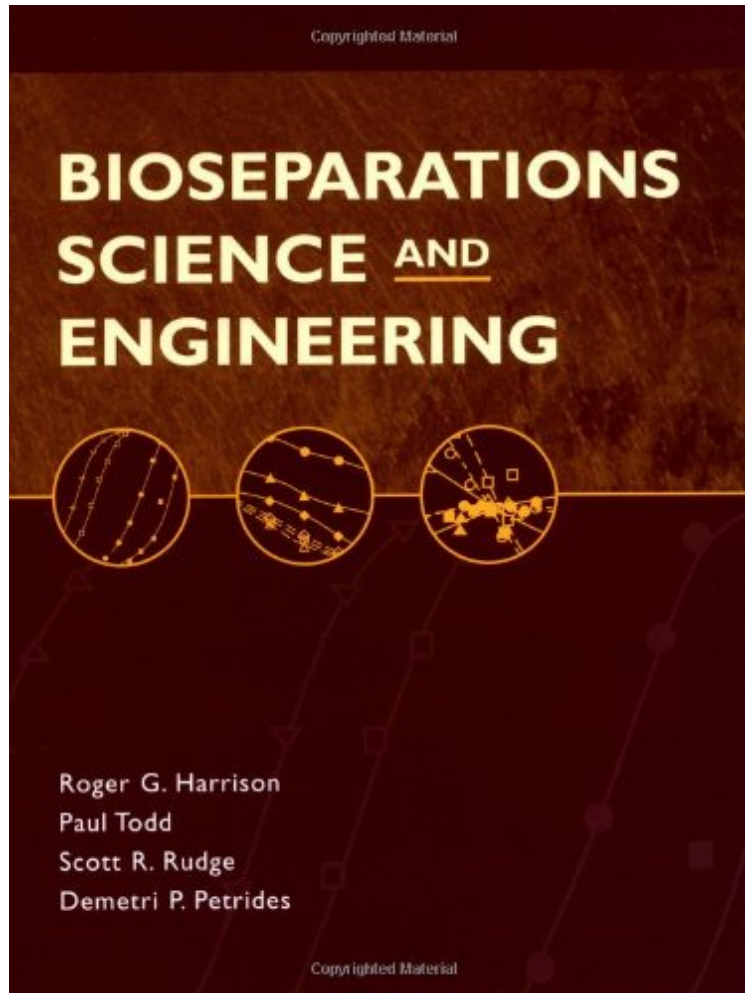


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# Bioseparations Science and Engineering (Topics in Chemical Engineering)

*Roger G. Harrison, Paul W. Todd, Scott R. Rudge, Demetri Petrides*

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Designed for undergraduates, graduate students, and industry practitioners, *Bioseparations Science and Engineering* fills a critical need in the field. Current, comprehensive, and concise, it covers bioseparations unit operations in greater depth than other texts on this topic. In each of the chapters, the authors use a consistent method of explaining unit operations, starting with a qualitative description noting the significance and general application of the unit operation. They then illustrate the scientific application of the operation, develop the required mathematical theory, and finally, describe the applications of the theory in engineering practice, with an emphasis on design and scaleup. Unique to this text is a chapter dedicated to bioseparations process design and economics, in which a process simulator, SuperPro Designer is used to analyze and evaluate the production of three important biological products. Other unique features include basic information about bioproducts and engineering analysis and a chapter with bioseparations laboratory exercises. *Bioseparations Science and Engineering* is ideal for students and professionals alike. Features Incorporates numerous example problems within the chapters Offers extensive sets of problems at the end of chapters Includes basic information about bioproducts Provides thorough coverage of analytical methods for bioproducts Uses the simulation software SuperPro Designer to illustrate the analysis and evaluation of the production of citric acid, recombinant human insulin, and monoclonal antibodies Includes laboratory exercises that support text material Accompanied by a solutions manual available to instructors who adopt this text Supplemented by a website ([www.biosep.ou.edu](http://www.biosep.ou.edu)) with new problems and examples and links to useful databases and manufacturers of bioseparations equipment and supplies

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About the Author Harrison is an Associate Professor in the School of Chemical Engineering and Materials Science at the University of Oklahoma, Norman.