

Dorota Antos

Gradient techniques in preparative chromatography

Modeling and experimental realization



Gradient Techniques In Preparative Chromatography Modeling And Experimental Realization

Dorota Antos

A decorative graphic element consisting of a light blue horizontal bar with a rounded right end, and a red circular gradient shape partially visible behind it.

Gradient Techniques In Preparative Chromatography Modeling And Experimental Realization:

Gradient Techniques in Preparative Chromatography Dorota Antos, 2003 *Gradient Techniques in Preparative Chromatography* Dorota Antos, 2009-09 Chromatographic separations are usually realized in isocratic mode i.e. with constant temperature pressure or solvent composition of the mobile phase during the process. However, it is well known that the adsorption behavior of the system can be strongly affected by changes of these operating parameters in gradient mode. In the work presented here, several aspects of applying the gradient technique for preparative scale of both batch and continuous chromatography are discussed. This analysis is included in the main PART II of the work. It starts from the examination of a batch system consisting of a single column. Subsequently, strategies of using gradient in a continuous separation with a parallel multi-column arrangement and with the SMB system are discussed. Before analyzing the gradient technique, the application of mathematical models of process dynamics for predicting chromatographic separations is thoroughly examined in PART I of the work. Moreover, in PART I, several aspects of the application of numerical methods for solving the model equations are discussed. *Nuclear Science Abstracts*, 1971 **Dissertation Abstracts International**, 1996 *Energy Research Abstracts*, 1985 *Energy Research Abstracts*, 1985 Includes all works deriving from DOE, other related government sponsored information and foreign nonnuclear information. **Index to Scientific & Technical Proceedings**, 1979-07 Monthly with annual cumulation. Published conference literature useful both as current awareness and retrospective tools that allow searching by authors of individual papers as well as by editors. Includes proceedings in all formats i.e. books, reports, journal issues, etc. Complete bibliographical information for each conference proceedings appears in section titled Contents of proceedings with accompanying category, permuted subject, sponsor, author, editor, meeting location and corporate indexes. Contains abbreviations used in organizational and geographical names.

High-Performance Gradient Elution Lloyd R. Snyder, John W. Dolan, 2007-01-09 Gradient elution demystified. Of the various ways in which chromatography is applied today, few have been as misunderstood as the technique of gradient elution, which presents many challenges compared to isocratic separation. When properly explained, however, gradient elution can be less difficult to understand and much easier to use than often assumed. Written by two well-known authorities in liquid chromatography, *High Performance Gradient Elution: The Practical Application of the Linear Solvent Strength Model* takes the mystery out of the practice of gradient elution and helps remove barriers to the practical application of this important separation technique. The book presents a systematic approach to the current understanding of gradient elution, describing theory, methodology, and applications across many of the fields that use liquid chromatography as a primary analytical tool. This up-to-date practical and comprehensive treatment of gradient elution provides specific step-by-step recommendations for developing a gradient separation for any sample. Describes the best approach for troubleshooting problems with gradient methods. Guides the reader on the equipment used for gradient elution. Lists which conditions should be varied first during

method development and explains how to interpret scouting gradients Explains how to avoid problems in transferring gradient methods With a focus on the use of linear solvent strength LSS theory for predicting gradient LC behavior and separations by reversed phase HPLC High Performance Gradient Elution gives every chromatographer access to this useful tool

Mathematical Modeling and Scale-up of Liquid Chromatography Tingyue Gu, 2012-12-06 Liquid chromatography has proved to be one of the most important tools for separations Rapid development in biotechnology has increased the demand for chromatography in analytical preparative and large scale applications The understanding of the dynamics of chromatography is imperative for the scale up This book is a systematic treatment of the general rate models for various forms of liquid chromatography including adsorption size exclusion affinity reversed phase hydrophobic interaction and radial flow chromatography Thermodynamic and mass transfer effects in liquid chromatography are discussed Applications of computer programs for the rate models are described and the procedures for the scale up of preparative and large scale liquid chromatography using the general rate models are given

Mathematical Modeling and Scale-Up of Liquid Chromatography Tingyue Gu, 2015-04-06 Tingyue Gu's second edition provides a comprehensive set of nonlinear multicomponent liquid chromatography LC models for various forms of LC such as adsorption size exclusion ion exchange reversed phase affinity isocratic gradient elution and axial radial flow LC Much has advanced since the first edition of this book and the author's software described here is now used for teaching and research in 32 different countries This book comes together with a complete software package with graphical user interface for personal computers offered free for academic applications Additionally this book provides detailed methods for parameter estimation of mass transfer coefficients bed voidage particle porosity and isotherms The author gives examples of how to use the software for predictions and scale up In contrast to the first edition authors do not need to deal with complicated math Instead they focus on how to obtain a few parameters for simulation and how to compare simulation results with experimental data After reading the detailed descriptions in the book a reader is able to use the simulation software to investigate chromatographic behavior without doing actual experiments This book is aimed at readers who are interested in learning about LC behaviors and at those who want to scale up LC for preparative and large scale applications Both academic personnel and industrial practitioners can benefit from the use of the book This new edition includes New models and software for pellicular cored beads in liquid chromatography Introduction of user friendly software with graphical user interface Detailed descriptions on how to use the software Step by step instructions on parameter estimation for the models New mass transfer correlations for parameter estimation Experimental methods for parameter estimation Several actual examples using the model for product development and scale up Updated literature review

Mathematical Modeling and Scale-Up of Liquid Chromatography Tingyue Gu, 2015 Tingyue Gu's second edition provides a comprehensive set of nonlinear multicomponent liquid chromatography LC models for various forms of LC such as adsorption size exclusion ion exchange reversed phase affinity

isocratic gradient elution and axial radial flow LC Much has advanced since the first edition of this book and the author's software described here is now used for teaching and research in 32 different countries This book comes together with a complete software package with graphical user interface for personal computers offered free for academic applications Additionally this book provides detailed methods for parameter estimation of mass transfer coefficients bed voidage particle porosity and isotherms The author gives examples of how to use the software for predictions and scale up In contrast to the first edition authors do not need to deal with complicated math Instead they focus on how to obtain a few parameters for simulation and how to compare simulation results with experimental data After reading the detailed descriptions in the book a reader is able to use the simulation software to investigate chromatographic behavior without doing actual experiments This book is aimed at readers who are interested in learning about LC behaviors and at those who want to scale up LC for preparative and large scale applications Both academic personnel and industrial practitioners can benefit from the use of the book This new edition includes New models and software for pellicular cored beads in liquid chromatography Introduction of user friendly software with graphical user interface Detailed descriptions on how to use the software Step by step instructions on parameter estimation for the models New mass transfer correlations for parameter estimation Experimental methods for parameter estimation Several actual examples using the model for product development and scale up Updated literature review

Gradient Injection in Preparative Chromatography Knut Geddicke, 2011

Modeling for Preparative Chromatography Georges Guiochon, Bingchang Lin, 2003-05-19 Nonlinear chromatography is a field that borders both chemical engineering and physical chemistry In turn the theory of nonlinear chromatography is the foundation of preparative chromatography a separation process that has lately become of considerable interest in the pharmaceutical industry Only chromatography is sufficiently flexible and powerful to satisfy the practical requirements encountered in most difficult separations of pharmaceuticals and pharmaceutical intermediates Since nonlinear behaviour is strictly a mathematical concept it is difficult to leave mathematics out of any fundamental study of nonlinear chromatography Therefore Modeling for Preparative Chromatography will describe the different mathematical models of chromatography examine the assumptions on which they are based consider their properties and discuss their solutions All this will be done from a mathematical analysis point of view paying considerable attention to the influence of nonlinear behavior on the results Clear and simple discussions of the basic physico chemical phenomena involved in HPLC Clear and complete presentation of the relevant properties of the mathematical tools involved Detailed analysis of nonlinear effects

Modeling and Calibration of Preparative Chromatography, 2013

Scale-Up and Optimization in Preparative Chromatography Anurag Rathore, Ajoy Velayudhan, 2002-09-26 Presenting guidelines to predict and improve separation system performance this book contains numerous case studies illustrating the practice of scale up principles in process development It offers solutions to limitations that occur in real world purification schemes methods to model optimize and characterize nonlinear separation processes

data comparisons from all stages of production and industrial separation schemes for products such as synthetic molecules antibody fragments IgG growth factors and plasmid DNA The book covers external constraints separation economics correlations for transport and kinetic phenomena and the configuration and parameters of column design *Analysis of the Potential of Nonlinear Solvent Gradients in Preparative Chromatography* Andualem Damtew Hamza,2010 **Preparative Chromatography** H. Schmidt-Traub,Michael Schulte,Andreas Seidel-Morgenstern,2020-06-02 The third edition of this popular work is revised to include the latest developments in this fast changing field Its interdisciplinary approach elegantly combines the chemistry and engineering to explore the fundamentals and optimization processes involved **High Temperature Gradient Techniques for Microbore Liquid Chromatography** Leslie Karen Moore,1993 **Gradient Elution in Column Liquid Chromatography** P. Jandera,1985 **Gradient Elution in Column Liquid Chromatography** Pavel Jandera,Jaroslav Churáček,1985

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