

Dynamics of Chromatography

Principles and Theory



J. Calvin Giddings

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Tingyue Gu



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This classic and bestselling landmark publication originally published in 1965 examines the dynamic mechanisms fundamental principles and physical properties of various chromatographic procedures It offers methods to characterize identify and predict chromatographic phenomena providing strategies to select the most appropriate separation tools and techniques for specific applications in chemistry physics biology and forensic and environmental science Written by a world renowned pioneer in the field Dynamics of Chromatography contains many worked equations and real world examples in gas and liquid chromatography It includes numerous schematic figures for visualization of key concepts introduces the means to control migration rate differences and zone spreading and presents a detailed random walk model for clarification of column processes It also analyzes flow diffusion and kinetic events stresses the link between theory and practice and summarizes mathematical quantities and parameters *Dynamics of Chromatography* J. Calvin Giddings,2019-10-17 This classic and bestselling landmark publication originally published in 1965 examines the dynamic mechanisms fundamental principles and physical properties of various chromatographic procedures It offers methods to characterize identify and predict chromatographic phenomena providing strategies to select the most appropriate separation tools and techniques for specific applications in chemistry physics biology and forensic and environmental science Written by a world renowned pioneer in the field Dynamics of Chromatography contains many worked equations and real world examples in gas and liquid chromatography It includes numerous schematic figures for visualization of key concepts introduces the means to control migration rate differences and zone spreading and presents a detailed random walk model for clarification of column processes It also analyzes flow diffusion and kinetic events stresses the link between theory and practice and summarizes mathematical quantities and parameters Dynamics of Chromatography John C. Giddings,1965 **Dynamics of Chromatography** John Calvin Giddings,1868 **Dynamics of chromatography** Calvin J. Giddings,1965 The General Theory of Sorption Dynamics and Chromatography Vladimir V. Rachinskii,2012-12-06 I Dynamics of Sorption and Its Practical Significance 1 Dynamics of Sorption as a Heterogeneous Process 2 On the History of the Practical Applications of the Phenomenon of Sorption Dynamics Sorption Technology and Chromatography 3 Problems of Terminology and Classification in the Theory of the Dynamics of Sorption and Chromatography 4 History of the Development of the Theory of Dynamics of Sorption and Chromatography II General Formulation of the Problem of the Dynamics of Sorption and Methods of Its Solution 1 Formulation of the Problem 2 Equations of the Material Balan **Dynamics of chromatography** John Calvin Giddings,1965 Dynamics of chromatography R. Lloyd Snyder,1968 *Dynamics of Chromatography; Part I: Principles and Theory* Giddings JC.,1965 Dynamics of Chromatography. Pt. 1. Principles and Theory J. C. Giddings,1965
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Chromatography. 3V J Calvin Giddings,1965 Dynamics of chromatography Friedrich Helfferich,1970 The General Theory of Sorption Dynamics and Chromatography Vladimir Vaclavovic Racinskij,1965 *Multi-Dimensional Liquid Chromatography* Dwight R. Stoll,Peter W. Carr,2022-12-30 Two dimensional liquid chromatography 2D LC is finding increasingly wide application principally due to the analysis of mixtures of moderate to high complexity Many industries are developing increasingly complex products that are challenging the separation capabilities of state of the art 1D LC and need new analytical methodologies with substantially more resolving power and 2D LC meets that need This text organized by two leaders in the field establishes a sound fundamental basis for the principles of the technique followed by a discussion of important practical considerations The book begins with an introduction to multi dimensional separations and a discussion of the history and development of the technique over the past 40 years followed by several chapters that provide a theoretical basis for development of 2D LC methods including foundational concepts regarding separation complementarity under sampling and dynamics of liquid chromatography separations Instrumentation for 2D LC is discussed extensively including practical aspects such as interface selection and setup Building on this foundation two separate chapters are focused on method development for non comprehensive and comprehensive separations followed by a chapter dedicated to data analysis Finally applications of 2D LC in several fields ranging from pharmaceutical analysis to polymer science are summarized The book is an important resource for both students and practitioners who are already using 2D LC or are interested in getting started in the field Key Features Demonstrates the conditions under which a 2D LC method should be considered as an alternative to a 1D LC method Establishes a sound fundamental basis of the principles of the technique followed by guidelines for method optimization Provides a single source for technical knowledge advances and practical guidance described in recent literature Assists with the initial decision to develop a 2D LC method Guides the reader in developing a high quality method that meets the needs of their application **Dynamics of chromatography** J. Benjamin Gudzinowicz,1967 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 The Journal of Analytical Chemistry of the USSR ,1972-04 Modeling of Molecular Properties Peter Comba,2011-10-05 Molecular modeling encompasses applied theoretical approaches and computational techniques to model structures and properties of molecular compounds and

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