



# High-Performance Gradient Elution: The Practical Application of the Linear-Solvent-Strength Model

By Lloyd R. Snyder, John W. Dolan

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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.

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### Editorial Review

#### Review

"This book is clear, well written, and easy to understand despite the complexity of the subject." (*Journal of the American Chemical Society*, July 2007)

#### From the Back Cover

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#### About the Author

**LLOYD R. SNYDER**, PHD, is a Principal at LC Resources in Walnut Creek, California. He is the author or coauthor of several books including *An Introduction to Separation Science*, *Introduction to Modern Liquid Chromatography*, Second Edition, and the bestselling *Practical HPLC Method Development*, Second Edition, all published by Wiley.

**JOHN W. DOLAN**, PHD, is a Principal at LC Resources. He is author of the popular "LC Troubleshooting" column in *LCGC Magazine* and coauthor with Lloyd Snyder of *Troubleshooting LC Systems*.

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#### **Donald Murray:**

Playing with family in the park, coming to see the ocean world or hanging out with pals is a thing that usually you may have done when you have spare time, subsequently why you don't try factor that really opposite from that. A single activity that makes you not sensation tired but still relaxing, thrilling like on roller coaster you are ride on and with additional info. Even you love High-Performance Gradient Elution: The Practical Application of the Linear-Solvent-Strength Model, you could enjoy both. It is a great combination right, you still desire to miss it? What kind of hang-out type is it? Oh occur its mind hangout folks. What? Still don't obtain it, oh come on its identified as reading friends.

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