

Fundamentals and Analytical Applications of Multiway Calibration, Volume 29 (Data Handling in Science and Technology)

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Fundamentals and Analytical Applications of Multi-Way Calibration presents researchers with a set of effective tools they can use to obtain the maximum information from instrumental data. It includes the most advanced techniques, methods, and algorithms related to multi-way calibration and the ways they can be applied to solve actual analytical problems.

This book provides a comprehensive coverage of the main aspects of multi-way analysis, including fundamentals and selected applications of chemometrics that can resolve complex analytical chemistry problems through the use of multi-way calibration.

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Editorial Review

About the Author

Alejandro Olivieri was born in Rosario, Argentina, on July 28, 1958. He obtained his B.Sc. in Industrial Chemistry from the Catholic Faculty of Chemistry and Engineering in 1982, and his Ph.D. from the Faculty of Biochemical and Pharmaceutical Sciences, University of Rosario in 1986. He currently works in the Department of Analytical Chemistry of the latter Faculty, and is a fellow of the National Research Council of Argentina (CONICET). He has published about 180 scientific papers in international journals, several books and book chapters and supervised nine Ph.D. Theses. He was John Simon Guggenheim Memorial Foundation fellow (2001-2002).

Graciela Escandar was born in Rosario, Argentina. She obtained her B.Sc. in Biochemistry in 1983 and her Ph.D. in 1992, both from the Faculty of Biochemical and Pharmaceutical Sciences, University of Rosario, where she is now Associate Pofessor in the Department of Analytical Chemistry, and fellow of the National Research Council of Argentina (CONICET). She has published about 100 scientific papers in international journals and book chapters and supervised six Ph.D. Theses. Her research focuses on the development of new luminescent methodologies coupled to multi-way calibration of analytes of environmental and pharmaceutical interest.

Héctor Goicoechea was born in Santa Fe, Argentina, on May 15, 1961. He received his Ph.D. (2000) from the National University of Rosario. After a postdoctoral research at North Dakota State University, USA, he joined the University of Litoral, Santa Fe (2004), where he is Full Professor of Analytical Chemistry/Chemometrics. He is fellow of the National Research Council of Argentina (CONICET), and has founded a research group (LADAQ). His works in the development of analytical methods based on spectroscopy and separations coupled to chemometrics. He published more than 120 papers in well-known international journals, and has supervised eight Ph.D Theses.

Arsenio Muñoz de la Peña received his Ph.D. (1981) degree at the University of Extremadura, Badajoz, Spain. He held post-doctoral positions at the Department of Medicinal Chemistry, University of Florida, with a Fullbright fellowship, and Department of Chemistry, University of Emory, and maintain a long-term collaboration with the Universities of Rosario and Litoral (Argentina). He is full Professor at the Department of Analytical Chemistry of the University of Extremadura. He is author of more than 170 scientific articles, reviews and book chapters. His research interest includes analytical applications of luminescence, multi-way multivariate calibration, and the development of luminescence chemosensors. He received in 2012 the Luis Federico Leroy Award to the International Cooperation in Science, Technology and Innovation, by the government of Argentina

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