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Nota di contenuto	Introduction / Lena Kaufmann, Christoph A Schalley -- Quantitative Analysis of Binding Properties / Keiji Hirose -- Isothermal Titration Calorimetry in Supramolecular Chemistry / Franz P Schmidtchen -- Extraction Methods / Holger Stephan, Manja Kubeil, Kerstin Gloe, Karsten Gloe -- Mass Spectrometry and Gas Phase Chemistry of Supramolecules / Dominik P Weimann, Michael Kogej, Christoph A Schalley -- Diffusion NMR in Supramolecular Chemistry and Complexed Systems / Yoram Cohen, Liat Avram, Tamar Evan-Salem, Sarit Slovak, Noam Shemesh, Limor Frish -- Photophysics and Photochemistry of Supramolecular Systems / Bernard Valeur, Mrio Nuno Berberan-Santos, Monique M Martin, Pascal Plaza -- Circular Dichroism Spectroscopy / Marie Urbanov, Petr Malon -- Electrochemical Methods / Paola Ceroni, Alberto Credi, Margherita Venturi -- Crystallography and Crystal

Engineering / Kari Rissanen -- Scanning Probe Microscopy / Bianca A Hermann, Regina Hoffmann-Vogel -- Single-Molecule Force Spectroscopy of Supramolecular Complexes / Tobias Schroeder, Volker Walhorn, Jochen Mattay, Dario Anselmetti -- Confocal Laser Scanning Microscopy: A Versatile Spectroscopic Tool for the Investigation of Molecular Gels / Anthony D'Alo, Andr Del Guerzo, Frdric Fages -- Transmission Electron Microscopy (TEM) of Radiation Sensitive Supramolecular Architectures Strategies for a Comprehensive Structure Characterization / Christoph Bttcher -- The Characterization of Synthetic Ion Channels and Pores / Stefan Matile, Naomi Sakai -- Theoretical Methods for Supramolecular Chemistry / Barbara Kirchner, Markus Reiher -- Index.

Sommario/riassunto

The second edition of "Analytical Methods in Supramolecular Chemistry" comes in two volumes and covers a broad range of modern methods and techniques now used for investigating supramolecular systems, e. g. NMR spectroscopy, mass spectrometry, extraction methods, crystallography, single molecule spectroscopy, electrochemistry, and many more. In this second edition, tutorial inserts have been introduced, making the book also suitable as supplementary reading for courses on supramolecular chemistry. All chapters have been revised and updated and four new chapters have been added.
