Remote Sensing by Fourier Transform Spectrometry
Reinhard Beer

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DESCRIPTION

Activation Spectrometry in Chemical Analysis Susan J. Parry In clear, easy-to-read language, Activation Spectrometry in Chemical Analysis provides a straightforward review of just what activation analysis can do, describing the technique as it is currently applied to biomedical, environmental, geological, and industrial analytical problems. The book outlines the specifics of the procedures that have proven critical to the technique's success and describes the current status of activation spectrometry in a concise, three-part format: principles, techniques, and applications. Written for undergraduates and postgraduates in universities, research institutes, government, or industry, the book provides the first definitive look at the day-to-day and key uses of the method that is at once challenging and intriguing, yet simple to grasp. 1991 (0 471-63844-7) 264 pp.

Principles and Practice of Spectroscopic Calibration Howard Mark Clearly linking theory with applications, this unique guide to spectroscopic calibration advances an approach that is understandable, free of the usual uncertainties, and simple to execute. The book details the practical aspects of generating a calibration equation, as well as the basics of recognizing and dealing with different types of problems affecting calibration. Most of the procedures are applicable to such sophisticated and popular approaches as Principal Component Calibration (PCA), Partial Least Squares Calibration (PLS), and Fourier Transform Calibration. 1991 (0 471-54614-3) 192 pp.

Analytical Raman Spectroscopy Edited by Jeanette G. Grasselli and Bernard J. Bulkin Analytical Raman Spectroscopy charts, through a series of contributed articles, the spectacular versatility of the method and its applications in semiconductor characterization, synthetic organic polymer analysis, organic and petrochemical analysis, heterogeneous catalysts, and biological studies. Chapters feature an outline structure which systematically details the critical aspects of each subject discussed. The book provides a unique look at the field's fundamental operational techniques, instrumentation, and up-to-the-minute advances: components of modern Raman spectrometers; Raman
spectroscopy of inorganic species in solution; quantitative analysis by Raman spectroscopy; and much more. 1991 (0 471-51955-3) 480 pp.

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About the author REINHARD BEER, PhD, currently holds several positions at the California Institute of Technology's Jet Propulsion Laboratory. He serves as Senior Research Scientist in the Earth and Space Sciences Division, Supervisor of the Tropospheric Science Group, and Manager of the Atmospheric and Oceanographic Sciences Section. Dr. Beer received his PhD in physics from the University of Manchester. He has contributed chapters to several publications including Laser Remote Chemical Analysis (Wiley, 1988) and is a member of several professional organizations including the Optical Society of America and the International Astronomical Union.

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