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For the fourth edition of INTRODUCTION TO SPECTROSCOPY, he joined the author team with Pavia, Lampman, and Kriz to help with revisions to the text. Professor Vyvyan's areas of interests include the...

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Magnetic Resonance Spectroscopy 2DNMR Problems Index

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Specialist Periodical Reports provide systematic and detailed review coverage of progress in the major areas of chemical research. Written by experts in their specialist fields the series creates a unique service for the active research chemist, supplying regular critical in-depth accounts of progress in particular areas of chemistry. For over 80 years the Royal Society of Chemistry and its predecessor, the Chemical Society, have been publishing reports charting developments in chemistry, which originally took the form of Annual Reports. However, by 1967 the whole spectrum of chemistry could no longer be contained within one volume and the series Specialist Periodical Reports was born. The Annual Reports themselves still existed but were divided into two, and subsequently three, volumes covering Inorganic, Organic and Physical

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Chemometrics is the application of mathematics and statistics to chemical data in order to design or select optimal experimental procedures, to provide maximum relevant information, and to obtain knowledge about systems under study. This chemical discipline has constantly developed to become a mature field of Analytical Chemistry after its inception in the 1970s. The utility and versatility of chemometric techniques enable spectroscopists to perform multidimensional classification and/or calibration of spectral data that make identification and quantification of analytes in complex mixtures possible. Wavelets are mathematical functions that cut up data into different frequency components, and then study

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each component with a resolution matched to its scale. They are now being adapted for a vast number of signal processing due to their unprecedented success in terms of asymptotic optimality, spatial adaptivity and computational efficiency. In analytical chemistry, they have increasingly shown great applicability and have been preferred over existing signal processing algorithms in noise removal, resolution enhancement, data compression and chemometrics modeling in chemical studies. The aim of this Research Topic is to present state-of-the-art applications of chemometrics, in the field of spectroscopy, with special attention to the use of wavelet transform. Both reviews and original research articles on pharmaceutical and biomedical analysis are welcome in the specialty section Analytical Chemistry.

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