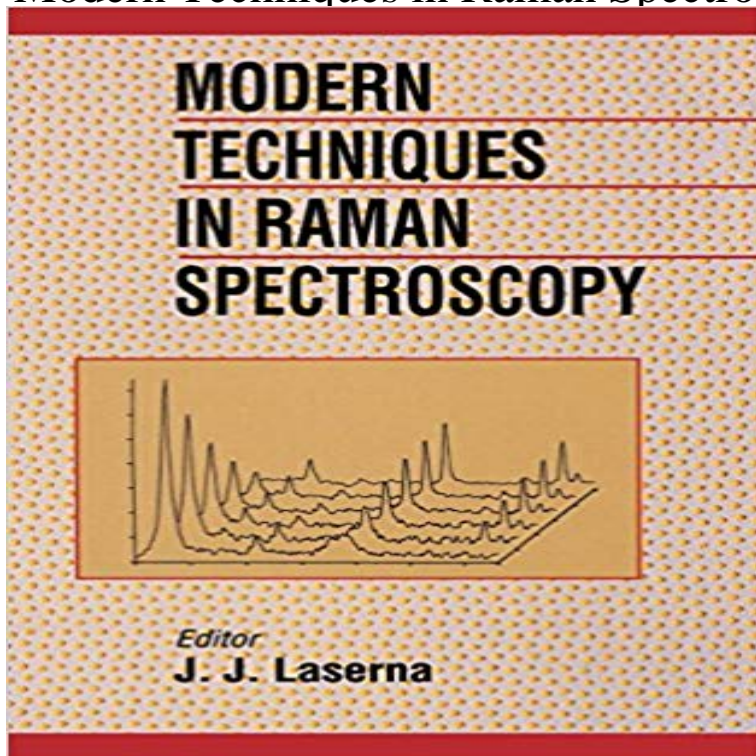


Modern Techniques in Raman Spectroscopy



Raman spectroscopy is now well established as one of the most versatile techniques for the chemical analysis of molecular species. Major advances have been made in a number of areas in the field in recent years which enable the researcher and practising analytical scientist to solve the complex chemical problems of today. The ten chapters in *Modern Techniques in Raman Spectroscopy* cover some of the most exciting fields of research in modern Raman techniques, and illustrate the power of modern Raman spectroscopy for molecular analysis in both theoretical and practical problems. The volume opens with chapters on signal expressions and instrumentation in Raman spectroscopy, and then goes on to discuss in detail Fourier and Hadamard Transform Raman spectroscopies, micro-Raman spectroscopy, surface-enhanced Raman spectroscopy, Raman optical activity, coherent and time-resolved techniques and the use of optical fibres in Raman spectroscopy. The chapters are written by leading researchers from a broad range of disciplines. Throughout, applications of the various techniques are discussed. *Modern Techniques in Raman Spectroscopy* will be of great interest to all those involved in molecular spectroscopy, in both industry and academia. The inclusion of a wide range of modern techniques in a single volume will make this a particularly valuable work to researchers across the whole field of Raman spectroscopy.

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