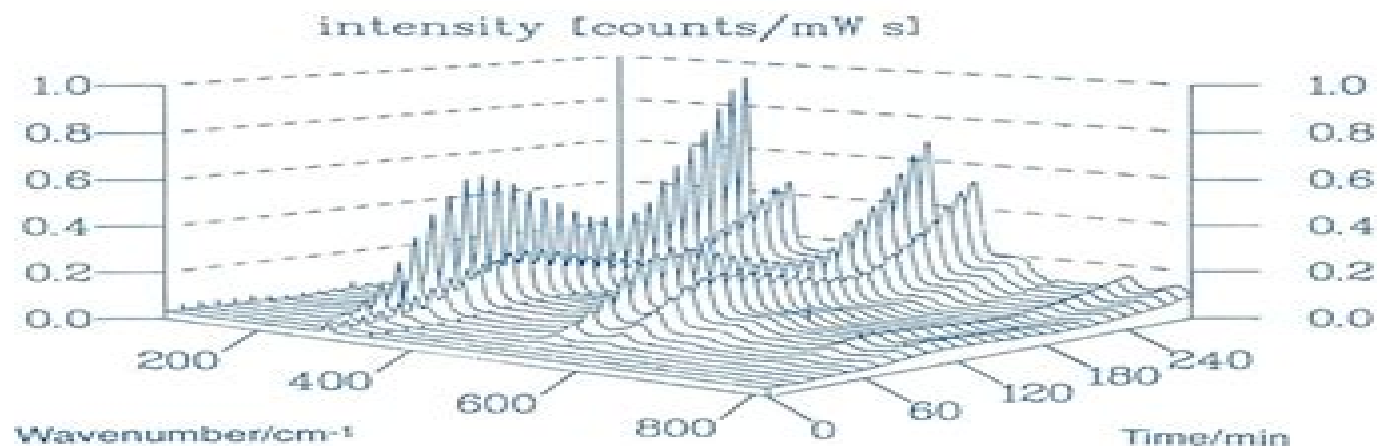




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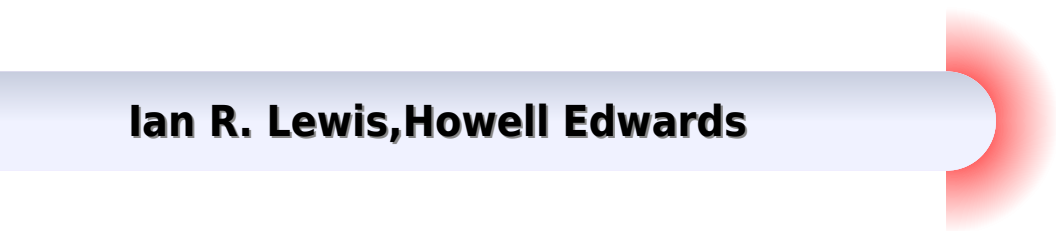
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Handbook Of Raman Spectroscopy From The Research Laboratory To The Process Line Practical Spectroscopy

Ian R. Lewis, Howell Edwards



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Practical Raman Spectroscopy Derek J. Gardiner, Pierre R. Graves, 2012-12-06 This volume sets out to draw together the essential expertise which will provide a technical guide to the practice of Raman spectroscopy The text deals exclusively with spontaneous Raman spectroscopy and includes some aspects of Resonance Raman spectroscopy Chapter I sets out the essential theoretical framework using a simple classical approach and deals with the rudiments of polarizability Many of these theoretical points are further developed in Chap 2 where the scattering and polarization consequences of various

sampling geometries and collection optics on gaseous liquid single crystal and thin film methods are detailed The relative advantages and disadvantages of the wide variety of hardware now available to the Raman spectroscopist are discussed in Chap 3 Important calibration data is presented in Chap 4 along with an account of data analysis techniques including signal enhancement methods Chapter 5 describes some of the techniques and cell designs that have been successfully used to study samples under extreme conditions and Chap 6 deals with the rapidly growing technique of Raman microscopy providing a wide range of application examples and experimental advice We recognise the difficulty in covering all aspects of Raman spectroscopy in a single volume and a section on further reading representing what we feel are amongst the more informative references at the time of publication is provided for additional detail Our hope is that Practical Raman Spectroscopy will help to provide a source of on hand technical support and data for the practising Raman spectroscopist in the laboratory Industrial Research ,1975 Books in Print Supplement ,1984

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