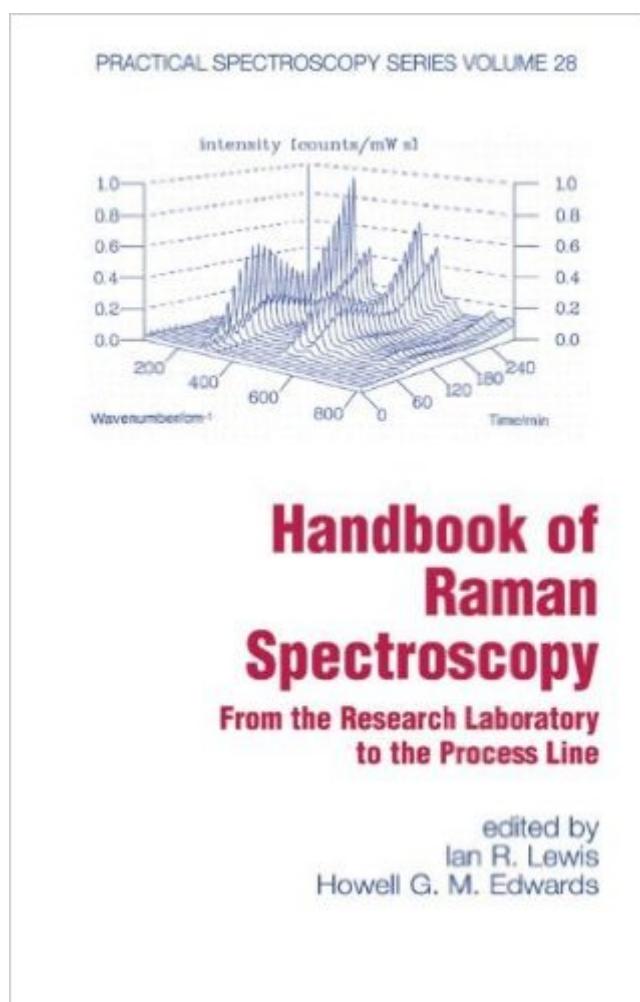


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# Handbook Of Raman Spectroscopy: From The Research Laboratory To The Process Line (Practical Spectroscopy)



## Synopsis

This work covers principles of Raman theory, analysis, instrumentation, and measurement, specifying up-to-the-minute benefits of Raman spectroscopy in a variety of industrial and academic fields, and how to cultivate growth in new disciplines. It contains case studies that illustrate current techniques in data extraction and analysis, as well as over 500 drawings and photographs that clarify and reinforce critical text material. The authors discuss Raman spectra of gases; Raman spectroscopy applied to crystals, applications to gemology, *in vivo* Raman spectroscopy, applications in forensic science, and collectivity of vibrational modes, among many other topics.

## Book Information

Series: Practical Spectroscopy

Hardcover: 1072 pages

Publisher: CRC Press; 1st edition (August 8, 2001)

Language: English

ISBN-10: 0824705572

ISBN-13: 978-0824705572

Product Dimensions: 2 x 7 x 10 inches

Shipping Weight: 4.4 pounds

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Comprehensive review of Raman spectroscopy includes chapters on theory and instrumentation, microscopy and imaging and confocal Raman. Covers the hybrid technique Scanning Near-Field Optical Microscopy with Confocal Raman microscopy. Includes a chapters on low-frequency studies, chemometrics and accuracy in Raman spectra. Applications of Raman spectroscopy are given individual chapters and include the following topics: Gases, Crystals, Glass, Gemmology, Semiconductor Nanostructures, *In Vivo*, Pharmaceuticals, aqueous environmental, catalysts, forensics, organic fibers and films, archaeology, Process/Industrial control among other applications. The chapters are individually or team written by experts in their respective fields. Fantastic overview with a breadth of information on Raman spectroscopy.

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