

APPLIED INFRARED SPECTROSCOPY

**Fundamentals,
Techniques,
and
Analytical Problem-Solving**

A. LEE SMITH

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Applied Infrared Spectroscopy Fundamentals Techniques And Analytical Problem Solving

Jicheng Xie



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Applied Infrared Spectroscopy; Fundamentals, Techniques, and Analytical Problem-solving (Volume 54 of the Chemical Analysis Series). AL. Smith, 1979

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Infrared Spectroscopy Barbara H. Stuart, 2004-08-20 Provides an introduction to those needing to use infrared spectroscopy for the first time explaining the fundamental aspects of this technique how to obtain a spectrum and how to analyse infrared data covering a wide range of applications Includes instrumental and sampling techniques Covers biological and industrial applications Includes suitable questions and problems in each chapter to assist in the analysis and interpretation of representative infrared spectra Part of the ANTS Analytical Techniques in the Sciences Series

Applied Spectroscopy Jerry Workman Jr., Art Springsteen, 1998-06-08 This book delineates practical tested general methods for ultraviolet visible and

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Infrared Spectroscopy in Conservation Science Michele R. Derrick, Dusan Stulik, James M. Landry, 2000-03-16 This book provides practical information on the use of infrared IR spectroscopy for the analysis of materials found in cultural objects Designed for scientists and students in the fields of archaeology art conservation microscopy forensics chemistry and optics the book discusses techniques for examining the microscopic amounts of complex aged components in objects such as paintings sculptures and archaeological fragments Chapters include the history of infrared spectroscopy the basic parameters of infrared absorption theory IR instrumentation analysis methods sample collection and preparation and spectra interpretation The authors cite several case studies such as examinations of Chumash Indian paints and the Dead Sea Scrolls The Institute's Tools for Conservation series provides practical scientific procedures and methodologies for the practice of conservation The series is specifically directed to conservation scientists conservators and technical experts in related fields

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Wood Ewing, 1997-08-29 Intended for both the novice and professional this text aims to approach problems with currently available tools and methods in the modern analytical chemistry domain It covers all fields from basic theory and principles of analytical chemistry to instrumentation classification design and purchasing This edition includes information on X ray methods and analysis capillary electrophoresis infrared and Raman technique comparisons and more

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