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8 NEAR-INFRARED IN VIVO SPECTROSCOPIC IMAGING: BIOMEDICAL RESEARCH AND CLINICAL APPLICATIONSPART III: PHARMACEUTICAL APPLICATIONS; 9 PHARMACEUTICAL APPLICATIONS OF RAMAN CHEMICAL IMAGING; 10 APPLICATIONS OF FTIR SPECTROSCOPIC IMAGING IN PHARMACEUTICAL SCIENCE; 11 NIR IMAGING APPLICATIONS IN THE PHARMACEUTICAL INDUSTRY; PART IV: APPLICATIONS IN FOOD RESEARCH; 12 RAMAN AND INFRARED IMAGING OF FOODS; 13 NEAR-INFRARED HYPERSPECTRAL IMAGING IN FOOD RESEARCH; PART V: APPLICATIONS IN POLYMER RESEARCH; 14 VIBRATIONAL SPECTROSCOPY IMAGING OF POLYMERS; PART VI: SPECIAL METHODS  
15 SURFACE-ENHANCED RAMAN SCATTERING IMAGING: APPLICATION AND EXPERIMENTAL APPROACH BY FAR-FIELD WITH CONVENTIONAL SETUP16 LINEAR AND NONLINEAR RAMAN MICROSPECTROSCOPY: FROM A MOLECULE TO SINGLE LIVING CELLS; INDEX; Colour Plates

**Sommario/riassunto**

An all-inclusive guide on the analytical methods of Raman, infrared, and near-infrared chemical imaging An underutilized technology, chemical imaging through Raman, infrared (IR), and near-infrared (NIR) is beginning to gain recognition for its non-destructive method of permitting visualization of spatially resolved chemical information. This type of analysis is triggering a groundswell of demand as manufactured materials become more complex and the need for greater scrutiny and less damaging research practices is at a premium. Concentrating on the applications of chemical imaging, th