DESCRIPTION

A comparison of the strengths and weaknesses of near-infrared, infrared and Raman imaging, focusing on current as well as conceivable applications for chemical analysis in delicate natural and synthetic samples. This handbook and ready reference covers instrumentation for vibrational spectroscopic imaging, chemometric evaluation of spectroscopic images, and vibrational spectroscopic imaging in biology and medicine, as well as the chemical, pharmaceutical and food industries.

ABOUT THE AUTHOR

Reiner Salzer retired as Professor of Analytical Chemistry at the Technische Universität Dresden, Germany. He obtained his academic degrees from the University of Leipzig, before taking up his appointment at the TU Dresden. He has authored over 250 books and scientific publications and was elected onto various national and international boards. Professor Salzer is a member of the Norwegian Academy of Science and, a recipient of the Emich Plaque of the Austrian Society of Analytical Chemistry. He is a long-time advisory board member for analytical and spectroscopic journals. Professor Salzer served as President of the Division Analytical Chemistry of the German Chemical Society and is National Delegate to the Division Analytical Chemistry of EuCheMS, where he is Head of the Study Group Education. He was elected as a member of the ECTNA Label Committee for the Chemistry Eurobachelor and Chemistry Euromaster.
Heinz W. Siesler has been a professor of Physical Chemistry at the University of Duisburg-Essen, Germany, since 1987. After receiving his PhD in chemistry in 1970 from the University of Vienna, Austria, he worked as a post-doc at the University of Cologne, Germany, and at the Witwatersrand University, Johannesburg, South Africa. Prior to his present position he gained industrial experience as section head in molecular spectroscopy and thermal analysis in the Corporate R&D Department of Bayer AG, Germany. Between 1992 and 2008 he held guest professorships in France, Japan, and Austria. Professor Siesler is a recipient of the EAS Award, the Tomas Hirschfeld Award and the Buechi Award in near-infrared spectroscopy. His main research focuses on the application of vibrational spectroscopy to chemical and polymer research, analysis and quality control, and he has written over 190 publications in this field.

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