

# Handbook Of Industrial Infrared Analysis

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Handbook of Near-Infrared Analysis, Second Edition  
Computerized Quantitative Infrared Analysis  
Infrared Spectroscopy for Food Quality Analysis and Control  
Practical Guide to Interpretive Near-Infrared Spectroscopy  
Practical Fourier Transform Infrared Spectroscopy  
Process Analytical Technology  
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with contributions from over 40 experts in the field this reference presents comprehensive single source coverage of the instrumentation computerization calibration and methods development of nir spectroscopy it provides novel applications for accurate time and cost effective analyses of pharmaceuticals polymers textiles agricultural products dairy products foods and beverages emphasizing trends in sample preparation the book covers historical development calibration transfer biomedical applications plastics and counterfeiting on line in line and at line analyses for process control multilinear regression and principal component analysis and more

written by an international panel of professional and academic peers the book provides the engineer and technologist working in research development and operations in the food industry with critical and readily accessible information on the art and science of infrared spectroscopy technology the book should also serve as an essential reference source to undergraduate and postgraduate students and researchers in universities and research institutions infrared ir spectroscopy deals with the infrared part of the electromagnetic spectrum it measure the absorption of different ir frequencies by a sample positioned in the path of an ir beam currently infrared spectroscopy is one of the most common spectroscopic techniques used in the food industry with the rapid development in infrared spectroscopic instrumentation software and hardware the application of this technique has expanded into many areas of food research it has become a powerful fast and non destructive tool for food

quality analysis and control infrared spectroscopy for food quality analysis and control reflects this rapid technology development the book is divided into two parts part i addresses principles and instruments including theory data treatment techniques and infrared spectroscopy instruments part ii covers the application of irs in quality analysis and control for various foods including meat and meat products fish and related products and others explores this rapidly developing powerful and fast non destructive tool for food quality analysis and control presented in two parts principles and instruments including theory data treatment techniques and instruments and application in quality analysis and control for various foods making it valuable for understanding and application fills a need for a comprehensive resource on this area that includes coverage of nir and mva

containing focused comprehensive coverage practical guide to interpretive near infrared spectroscopy gives you the tools necessary to interpret nir spectra the authors present extensive tables charts and figures with nir absorption band assignments and structural information for a broad range of functional groups organic compounds and

practical fourier transform infrared spectroscopy industrial and laboratory chemical analysis presents the fourier transform infrared spectroscopy ft ir as a valuable analytic tool in solving industrial and laboratory chemical problems the text provides chapters that deal with the various applications of ft ir such as the characterization of organic and inorganic superconductors the study of forensic materials such as controlled drug particles fragments of polymers textile fibers and explosives identification and quantification of impurities and measurement of epitaxial thickness in silicon bulk and surface studies and microanalyses of industrial materials and the identification or determination of unknown compounds chemists industrial researchers and product engineers will find the book useful

process analytical technology explores the concepts of pat and its application in the chemical and pharmaceutical industry from the point of view of the analytical chemist in this new edition all of the original chapters have been updated and revised and new chapters covering

the important topics of sampling nmr fluorescence and acoustic chemometrics have been added coverage includes implementation of process analytical technologies uv visible spectroscopy for on line analysis infrared spectroscopy for process analytical applications process raman spectroscopy process nmr spectrscopy technology and on line applications fluorescent sensing and process analytical applications chemometrics in process analytical technology pat on line pat applications of spectroscopy in the pharmaceutical industry future trends for pat for increased process understanding and growing applications in biomanufacturing nir chemical imaging this volume is an important starting point for anyone wanting to implement pat and is intended not only to assist a newcomer to the field but also to provide up to date information for those who practice process analytical chemistry and pat it is relevant for chemists chemical and process engineers and analytical chemists working on process development scale up and production in the pharmaceutical fine and specialty chemicals industries as well as for academic chemistry chemical engineering chemometrics and pharmaceutical science research groups focussing on pat review from the first edition the book provides an excellent first port of call for anyone seeking material and discussions to understand the area better it deserves to be found in every library that serves those who are active in the field of process analytical technology current engineering practice

this handbook is a guide for workers in analytical chemistry who need a starting place for information about a specific instrumental technique it gives a basic introduction to the techniques and provides leading references on the theory and methodology for an instrumental technique this edition thoroughly expands and updates the chapters to include concepts applications and key references from recent literature it also contains a new chapter on process analytical technology

fundamentals of fourier transform infrared spectroscopy teaches the basics of ftir spectroscopy to those new to the field and serves as an excellent reference for experienced users this book explains difficult theoretical concepts using diagrams and easy to understand language with a minimum of complex mathematics it contains a unique chapter on spectral data manipulation

and a discussion of the 15 pitfalls of quantitative analysis the comprehensive glossary provides quick and easy access to important ftir terms

this volume is a collection of contributions to the ft ir workshop held under the auspices of the spectroscopy society of canada and organ ized by professor theophile theophanides director of the workshop the gathering of leading spectroscopists and researchers at gray rocks to discuss fourier transform infrared spectroscopy was the occasion of the 29th annual conference of the spectroscopy society of canada the plea sant surroundings of gray rocks st jovite quebec canada contributed most positively to the success of the two day workshop held september 30 october 1 1982 the preliminary program and the proceedings were distributed at the workshop by multiscience publications ltd the publication of this volume provides the occasion to thank all the contributors for kindly accepting to lecture at the workshop and for their collaboration i thank mr ai dufresne for accepting to act as manager of the workshop and mrs susane dufresne secretary of the work shop for patiently contacting all the participants and for making the necessary arrangements of registration and accomodation

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