

Analysing pharmaceutical tablets with confocal Raman imaging

The application note presents Raman imaging in a real life pharmaceutical tablet analysis. It describes how to understand the distribution of chemical ingredients, quantifying their content, assessing uniformity and detecting any foreign matter. The importance of good data is also highlighted by additional points for successful implementation of the analysis.

Introduction
 It is well known that many of the pharmaceutical products that are used to treat patients are composed of multiple ingredients and excipients. These ingredients and excipients are often mixed together to form a solid dosage form, such as a tablet. The challenge for the pharmaceutical industry is to ensure that the dosage form is uniform in composition and that the ingredients and excipients are distributed evenly throughout the tablet. This is often achieved by using a process called *confocal Raman imaging*. This process allows the user to see the internal structure of the tablet and to measure the concentration of the ingredients and excipients. This is done by using a Raman spectrometer to measure the Raman scattering of the ingredients and excipients. The Raman scattering is then converted into a color image, where the color represents the concentration of the ingredients and excipients. This allows the user to see the internal structure of the tablet and to measure the concentration of the ingredients and excipients. This is often achieved by using a process called *confocal Raman imaging*. This process allows the user to see the internal structure of the tablet and to measure the concentration of the ingredients and excipients.

Understanding the importance of data
 The importance of data is often overlooked in the pharmaceutical industry. However, data is the key to understanding the internal structure of the tablet and to measuring the concentration of the ingredients and excipients. This is often achieved by using a process called *confocal Raman imaging*. This process allows the user to see the internal structure of the tablet and to measure the concentration of the ingredients and excipients.

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Developments in Surface Contamination and Cleaning, Volume 12 Rajiv Kohli,K.L. Mittal,2019-06-08

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Park,2011-01-14 This book describes the theories applications and challenges for different oral controlled release formulations This book differs from most in its focus on oral controlled release formulation design and process development It also covers the related areas like preformulation biopharmaceutics in vitro in vivo correlations IVIVC quality by design QbD and regulatory issues **Instrumental Analytical Chemistry** James W. Robinson,Eileen M. Skelly Frame,George M.

Frame II,2021-06-29 Analytical chemistry today is almost entirely instrumental analytical chemistry and it is performed by many scientists and engineers who are not chemists Analytical instrumentation is crucial to research in molecular biology medicine geology food science materials science and many other fields With the growing sophistication of laboratory equipment there is a danger that analytical instruments can be regarded as black boxes by those using them The well known phrase garbage in garbage out holds true for analytical instrumentation as well as computers This book serves to provide users of analytical instrumentation with an understanding of their instruments This book is written to teach undergraduate

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A Practical Guide to Geometric Regulation for Distributed Parameter Systems Eugenio Aulisa, David Gilliam, 2015-06-18 A Practical Guide to Geometric Regulation for Distributed Parameter Systems provides an introduction to geometric control design methodologies for asymptotic tracking and disturbance rejection of infinite dimensional systems The book also introduces several new control algorithms inspired by geometric invariance and asymptotic attraction for a wide range of dynamical control systems The first part of the book is devoted to regulation of linear systems beginning with the mathematical setup general theory and solution strategy for regulation problems with bounded input and output operators The book then considers the more interesting case of unbounded control and sensing Mathematically this case is more complicated and general theorems in this area have become available only recently The authors also provide a collection of interesting linear regulation examples from physics and engineering The second part focuses on regulation for nonlinear systems It begins with a discussion of theoretical results characterizing solvability of nonlinear regulator problems with bounded input and output operators The book progresses to problems for which the geometric theory based on center manifolds does not directly apply The authors show how the idea of attractive invariance can be used to solve a series of increasingly complex regulation problems The book concludes with the solutions of challenging nonlinear regulation examples from physics and engineering

Modern Vibrational Spectroscopy and Micro-Spectroscopy Max Diem, 2015-06-16 Modern Vibrational Spectroscopy and Micro Spectroscopy Theory Instrumentation and Biomedical Applications unites the theory and background of conventional vibrational spectroscopy with the principles of microspectroscopy It starts with basic theory as it applies to small molecules and then expands it to include the large biomolecules which are the main topic of the book with an emphasis on practical experiments results analysis and medical and diagnostic applications This book is unique in that it addresses both the parent spectroscopy and the microspectroscopic aspects in one volume Part I covers the basic theory principles and instrumentation of classical vibrational infrared and Raman spectroscopy It is aimed at researchers with a background in chemistry and physics and is presented at the level suitable for first year graduate students The latter half of Part I is devoted to more novel subjects in vibrational spectroscopy such as resonance and non linear Raman effects

vibrational optical activity time resolved spectroscopy and computational methods Thus Part 1 represents a short course into modern vibrational spectroscopy Part II is devoted in its entirety to applications of vibrational spectroscopic techniques to biophysical and bio structural research and the more recent extension of vibrational spectroscopy to microscopic data acquisition Vibrational microscopy or microspectroscopy has opened entirely new avenues toward applications in the biomedical sciences and has created new research fields collectively referred to as Spectral Cytopathology SCP and Spectral Histopathology SHP In order to fully exploit the information contained in the micro spectral datasets methods of multivariate analysis need to be employed These methods along with representative results of both SCP and SHP are presented and discussed in detail in Part II

Undergraduate Instrumental Analysis Thomas J. Bruno, James W. Robinson, George M. Frame II, Eileen M. Skelly Frame, 2023-07-31 Analytical instrumentation is crucial to research in molecular biology medicine geology food science materials science forensics and many other fields *Undergraduate Instrumental Analysis* 8th Edition provides the reader with an understanding of all major instrumental analyses and is unique in that it starts with the fundamental principles and then develops the level of sophistication that is needed to make each method a workable tool for the student Each chapter includes a discussion of the fundamental principles underlying each technique detailed descriptions of the instrumentation and a large number of applications Each chapter includes an updated bibliography and problems and most chapters have suggested experiments appropriate to the technique This edition has been completely updated revised and expanded The order of presentation has been changed from the 7th edition in that after the introduction to spectroscopy UV Vis is discussed This order is more in keeping with the preference of most instructors Naturally once the fundamentals are introduced instructors are free to change the order of presentation Mathematics beyond algebra is kept to a minimum but for the interested student in this edition we provide an expanded discussion of measurement uncertainty that uses elementary calculus although a formula approach can be used with no loss of context Unique among all instrumental analysis texts we explicitly discuss safety up front in Chapter 2 The presentation intentionally avoids a finger wagging thou shalt not approach in favor of a how to discussion of good laboratory and industrial practice It is focused on hazards and remedies that might be encountered in the use of instrumentation Among the new topics introduced in this edition are Photoacoustic spectroscopy Cryogenic NMR probes and actively shielded magnets The nature of mixtures in the context of separations Troubleshooting and leaks in high vacuum systems such as mass spectrometers Instrumentation laboratory safety Standard reference materials and standard reference data In addition the authors have included many instrument manufacturer s websites which contain extensive resources We have also included many government websites and a discussion of resources available from National Measurement Laboratories in all industrialized countries Students are introduced to standard methods and protocols developed by regulatory agencies and consensus standards organizations in this context as well

Undergraduate Instrumental Analysis James W. Robinson, Eileen Skelly Frame, George M. Frame II, 2014-07-21

Crucial to research in molecular biology medicine geology food science materials science and many other fields analytical instrumentation is used by many scientists and engineers who are not chemists Undergraduate Instrumental Analysis Seventh Edition provides users of analytical instrumentation with an understanding of these instruments c **Raman Spectroscopy and Applications** Khan Maaz, 2017-02-15 Raman spectroscopy has a number of applications in various fields including material science physics chemistry biology geology and medicine This book illustrates necessary insight and guidance in the field of Raman spectroscopy with detailed figures and explanations This presents deep understanding of new techniques from basic introduction to the advance level for scientists and engineers The chapters cover all major aspects of Raman spectroscopy and its application in material characterization with special emphasis on both the theoretical and experimental aspects This book is aimed to provide solid foundation of Raman spectroscopy to the students scientists and engineers working in various fields as mentioned above Scanning Probe Microscopy in Industrial Applications Dalia G. Yablon, 2013-10-24 Describes new state of the science tools and their contribution to industrial R D With contributions from leading international experts in the field this book explains how scanning probe microscopy is used in industry resulting in improved product formulation enhanced processes better quality control and assurance and new business opportunities Readers will learn about the use of scanning probe microscopy to support R D efforts in the semiconductor chemical personal care product biomaterial pharmaceutical and food science industries among others Scanning Probe Microscopy in Industrial Applications emphasizes nanomechanical characterization using scanning probe microscopy The first half of the book is dedicated to a general overview of nanomechanical characterization methods offering a complete practical tutorial for readers who are new to the topic Several chapters include worked examples of useful calculations such as using Hertz mechanics with and without adhesion to model a contact step by step instructions for simulations to guide cantilever selection for an experiment and data analysis procedures for dynamic contact experiments The second half of the book describes applications of nanomechanical characterization in industry including New formulation development for pharmaceuticals Measurement of critical dimensions and thin dielectric films in the semiconductor industry Effect of humidity and temperature on biomaterials Characterization of polymer blends to guide product formulation in the chemicals sector Unraveling links between food structure and function in the food industry Contributions are based on the authors thorough review of the current literature as well as their own firsthand experience applying scanning probe microscopy to solve industrial R D problems By explaining the fundamentals before advancing to applications Scanning Probe Microscopy in Industrial Applications offers a complete treatise that is accessible to both novices and professionals All readers will discover how to apply scanning probe microscopy to build and enhance their R D efforts *Physics, Chemistry and Application of Nanostructures* Viktor Evgen'evich Borisenko, 2013 This book presents invited reviews and original short notes of recent results obtained in studies concerning the fabrication and application of nanostructures which hold great promise for the

next generation of electronic optoelectronic and energy conversion devices Covering exciting and relatively new topics such as fast progressing nanoelectronics and optoelectronics molecular electronics and spintronics nanophotonics nanosensorics and nanoenergetics as well as nanotechnology and quantum processing of information this book gives readers a more complete understanding of the practical uses of nanotechnology and nanostructures *Software Engineering Application in Systems Design* Radek Silhavy,Petr Silhavy,Zdenka Prokopova,2023-01-01 This book presents the latest research on software engineering application in informatics The fields of software engineering informatics computer science and artificial intelligence are critical for study in the intelligent systems issue space This is the first part of the refereed proceedings of the 6th Computational Methods in Systems and Software 2022 CoMeSySo 2022 The CoMeSySo 2022 conference which is being hosted online is breaking down barriers CoMeSySo 2021 aims to provide a worldwide venue for debate of the most recent high quality research findings **Applications of Chalcogenides: S, Se, and Te** Gurinder Kaur Ahluwalia,2016-11-02 This book introduces readers to a wide range of applications for elements in Group 16 of the periodic table such as optical fibers for communication and sensing X ray imaging electrochemical sensors data storage devices biomedical applications photovoltaics and IR detectors the rationale for these uses the future scope of their applications and expected improvements to existing technologies Following an introductory section the book is broadly divided into three parts dealing with Sulfur Selenium and Tellurium The sections cover the basic structure of the elements and their compounds in bulk and nanostructured forms properties that make these useful for various applications followed by applications and commercial products As the global technology revolution necessitates the search for new materials and more efficient devices in the electronics and semiconductor industry Applications of Chalcogenides S Se and Te is an ideal book for a wide range of readers in industry government and academic research facilities looking beyond silicon for materials used in the electronic and optoelectronic industry as well as biomedical applications *Polysaccharides* Inamuddin,Mohd Imran Ahamed,Rajender Boddula,Tariq Altalhi,2021-06-29 In diesem Werk werden Polysaccharide unter s mtlichen Aspekten betrachtet von den Grundkonzepten bis zur kommerziellen Vermarktung Thema der einzelnen Kapitel sind die verschiedenen Arten von Quellen die Klassifikation Eigenschaften Charakterisierung Verarbeitung Rheologie und Herstellung von Materialien auf Grundlage von Polysacchariden sowie von Polysaccharid Gemischen und Gelen Anwendung finden Polysaccharide u a in der Kosmetik der Lebensmittelwissenschaft der Medikamentenverabreichung der Biomedizin der Biokraftstoffproduktion der Schifffahrt im Verpackungswesen in der Chromatographie und der Umweltsanierung Dar ber hinaus vermittelt das Werk einen berblick ber die Herstellung von anorganischen und Kohlenstoff Nanomaterialien aus Polysacchariden Mit der Betrachtung industrieller Anwendungen schlie t das Buch die L cke zwischen der Forschungsarbeit im Labor und wirtschaftlich nutzbaren Anwendungen in entsprechenden Unternehmen Western Blot: Simple Guide and Important Tips for a Beginner Che Aishah Nazariah Ismail, Mahaneem Mohamed, Victor Udo Nna,2023-10-11 The first time you know that you need to conduct

Western blotting you may be nervous since there are many critical steps to follow It would be advantageous to the experienced researcher but for the first timer especially postgraduate students it can be such a hassle This book will guide the researcher who is new to Western blotting step by step from the scratch in a simple and illustrative way This book benefits the reader as it provides a simple illustrative guide starting from protein extraction to visualization of protein bands with some troubleshooting guides to improve the protein bands quality

Nanomagnets as Dynamical Systems Supriyo Bandyopadhyay, Anjan Barman, 2024-11-09 This contributed volume provides a comprehensive overview of contemporary advancements in the field of nanomagnetism and spintronics It covers a diverse range of topics including the static and dynamic responses of designer nanomagnets spin wave dynamics in ultra thin ferromagnetic films voltage controlled magnetic anisotropy magneto elastic control of nanomagnet dynamics mutual synchronization in spintronic oscillators magnetic droplet solitons and the applications of voltage controlled magnetic anisotropy in spintronic devices Each chapter discusses specific aspects of these subjects exploring theoretical models experimental methods applications and future directions making it an essential resource for researchers students and professionals in the fields of physics materials science electrical engineering and nanoscience

Design, Characterization and Application of Resonant Nano-aperture Near-field Optical Probes Joseph A. Matteo, 2005

Regenerating Bodies Julie Kent, 2012-07-26 This exciting book examines how human tissues and cells are being exchanged commodified and commercialized by new health technologies Through a discussion of emergent global tissue economies the author explores the social dynamics of innovation in the fields of tissue engineering and stem cell science The book explores how regenerative medicine configures and conceptualizes bodies and argues that the development of regenerative medicine is a feminist issue In *Regenerating Bodies* Kent critically examines the transformative potential of regenerative medicine and whether it represents a paradigm shift from more traditional forms of biomedicine The book shows that users of these technologies are gendered and women s bodies are enrolled in the production of them in particular ways So what is the value of a feminist bioethics for thinking about the ethical issues at stake Drawing on extensive qualitative field research Kent examines the issues around donation procurement banking and engineering of human tissues and presents an analysis of the regulatory and policy debates surrounding these practices within Europe and the UK The book considers the claims that regenerative medicine represents exciting possibilities for treating the diseases of ageing bodies critically assessing what kind of futures are embodied in tissue and cell based therapies It will be of interest to a wide range of scholars and students within the social sciences in health technology studies bioethics feminist studies and gender and health studies

Animal Cell Biotechnology Ralf Pörtner, 2007-04-05 The second edition of this book constitutes a comprehensive manual of new techniques for setting up mammalian cell lines for production of biopharmaceuticals and for optimizing critical parameters for cell culture considering the whole cascade from lab to final production The chapters are written by world renowned experts and the volume s five parts reflect the processes

required for different stages of production This book is a compendium of techniques for scientists in both industrial and research laboratories that use mammalian cells for biotechnology purposes

**Percutaneous Penetration Enhancers
Drug Penetration Into/Through the Skin** Nina Dragicevic, Howard I. Maibach, 2017-05-04

Percutaneous Penetration Enhancers in a mini series format comprising five volumes represents the most comprehensive reference on enhancement methods both well established and recently introduced in the field of dermal transdermal drug delivery In detail the broad range of both chemical and physical methods used to enhance the skin delivery of drugs is described All aspects of drug delivery and measurement of penetration are covered and the latest findings are provided on skin structure and function mathematics in skin permeation and modern analytical techniques adapted to assess and measure penetration In offering a detailed description of the methods currently in use for penetration enhancement this book will be of value for researchers pharmaceutical scientists practitioners students and dermatological scientists or dermatologists

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