

## Confocal Raman Imaging of Carbon Nanotubes Application Examples

### Carbon Nanotubes

A Carbon nanotube (CNT) is a member of the fullerene structural family that forms cylindrical carbon molecules, their name being derived from their size and composition. The diameter of a CNT is on the order of a few nanometers, while they can be up to several centimeters in length. They exhibit extraordinary strength and unique electrical properties, and are efficient conductors of heat. Their remarkable mechanical and electrical properties make them potentially useful in a wide variety of applications (e.g., nano-electronics, optics, materials applications, etc.). There are two main types of nanotubes: single-walled (SWNTs) and multi-walled nanotubes

### Wavelength Dependent Raman Imaging

Raman signals of CNTs show dependence of the exciting laser wavelength. Raman spectroscopy on SWNT is a resonant Raman scattering process of single photons, providing insight into the photonic and electronic structure of one-dimensional carbon molecules in their bonding environment. The radial breathing modes (RBM), can be found at low wavenumbers (100-350/cm) and are the result of coherent vibration of carbon atoms in the radial direction. The position of the RBM provides information on the diameter of the nanotube, the intensity of the peak elucidates the electronic structure of individual tubes, the combination of both parameters then allows the characterization of the structure of SWNTs. Like all resonant processes, the intensity of the Raman scattering from SWNT strongly depends on the wavelength of the excitation laser. This study shows results from one and the same sample area analyzed with 514 nm (Fig. 1a and b) and 633 nm (Fig. 1c and d) excitation wavelength, respectively. Using a 514 nm excitation, SWNT with a diameter ranging from 0.9 nm (Fig. 1a red spectrum) to 1.2 nm (Fig. 1a blue spectrum) are detected, their distribution is shown color coded in Fig. 1b. Application of a 633 nm excitation laser, SWNT are detected with structural properties fulfilling the resonance conditions,

(MWNNTs). Other than impurities, the CNT is formed entirely of carbon atoms. The structure of the carbon is a hexagonal web ("graphene sheet") rolled into a cylindrical tube, sometimes with a "cap" at each end of the cylinder (SWNT). Cylinders may exist inside other cylinders like the layers of a leafy vegetable, with a gap of 0.34 nm between cylinders (MWNNT). Some pentagonal (five-sided) and heptagonal (seven-sided) defects can cause cylinders to bend, change diameter, or twist. Well established characterization methods for CNTs include scanning tunneling microscopy or transmission electron microscopy, which provide the ability to measure the nanotube diameter or the chiral angle. The nanotubes

however, can be damaged by the electron beam in the microscope. In order to nondestructively characterize the tubes, Atomic Force Microscopy (AFM) and Confocal Raman Microscopy can be used. AFM reveals information concerning the structural morphology, whereas the Raman spectra of the tubes directly describe the chemical composition and the molecular structure. For example, it is possible to identify the diameter of the tubes, their orientation depending on polarization, different electrical properties, and even to distinguish SWNT and MWNNT. To show the capabilities of Confocal Raman Microscopy, this study investigates carbon nanotubes with the Witec alphagoo II.

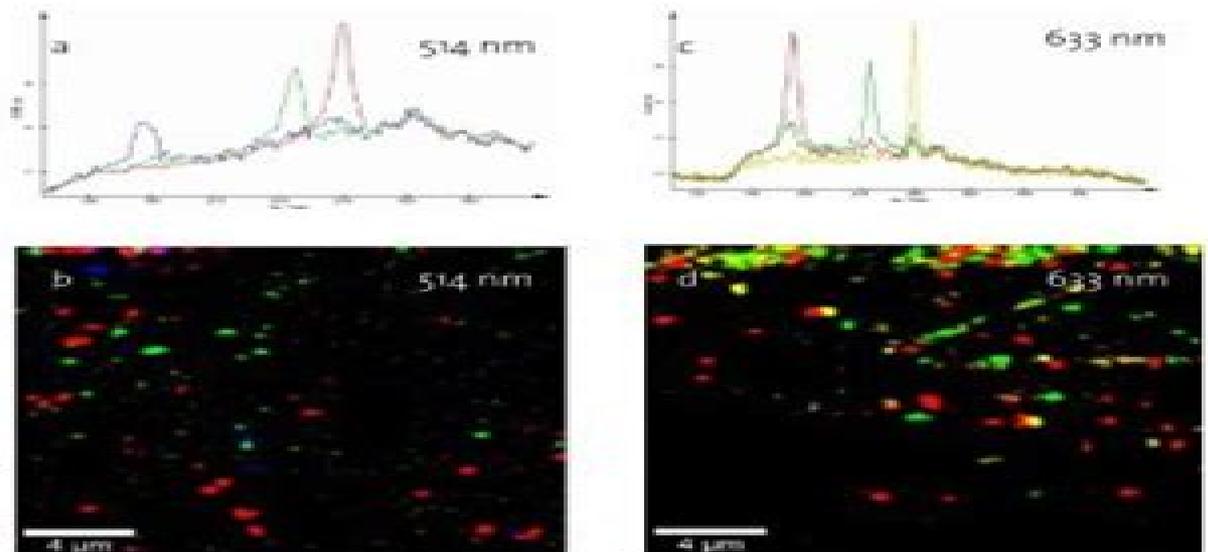


Fig. 1 Confocal Raman Imaging on Carbon Nanotubes. Scan Range: 20x20 μm, 100x100 pixels = 10000 spectra, 100 ms/spectrum, 1000 gr/s, 10 grating. (a) Typical spectra at 514 nm, (b) Distribution of corresponding nanotubes on the silicon substrate, (c) Typical spectra at 633 nm, (d) Distribution of corresponding nanotubes.

# Application Note Witec

**Sebastian Brünink**



## **Application Note Witec:**

Developments in Surface Contamination and Cleaning, Volume 12 Rajiv Kohli, K.L. Mittal, 2019-06-08 Developments in Surface Contamination and Cleaning Methods for Assessment and Verification of Cleanliness of Surfaces and Characterization of Surface Contaminants Volume Twelve the latest release in the Developments in Surface Contamination and Cleaning series provides best practices on determining surface cleanliness Chapters include an introduction to the nature and size of particles a discussion of cleanliness levels detailed coverage of measurement methods characterization methods and analytical methods for evaluating surfaces and an overview of analysis methods for various contaminants As a whole the series creates a unique and comprehensive knowledge base for those in research and development in a variety of industries Manufacturing quality control and procurement specification professionals in the aerospace automotive biomedical defense energy manufacturing microelectronics optics and xerography industries will find this book to be very helpful In addition researchers in an academic setting will also find these volumes excellent source books Includes an extensive listing with a description of available methods for the assessment of surface cleanliness Provides a single source of information on methods for verification of surface cleanliness Serves as a guide to the selection assessment and verification of methods for specific applications

Applications of Vibrational Spectroscopy in Food Science, 2 Volume Set Eunice Li-Chan, John M. Chalmers, Peter R. Griffiths, 2010-11-01 Bringing several disparate aspects of food science and analysis together in one place Applications of Vibrational Spectroscopy to Food Science provides a comprehensive state of the art text presenting the fundamentals of the methodology as well as underlying current areas of research in food science analysis All of the major spectroscopic techniques are also covered showing how each one can be used beneficially and in a complementary approach for certain applications Case studies illustrate the many applications in vibrational spectroscopy to the analysis of foodstuffs

Oral Controlled Release Formulation Design and Drug Delivery Hong Wen, Kinam 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

**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

**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 students and those working in chemical fields outside analytical chemistry how contemporary analytical instrumentation works as well as its uses and limitations Mathematics is kept to a minimum No background in calculus physics or physical chemistry is required The major fields of modern instrumentation are covered including applications of each type of instrumental technique Each chapter includes A discussion of the fundamental principles underlying each technique Detailed descriptions of the instrumentation An extensive and up to date bibliography End of chapter problems Suggested experiments appropriate to the technique where relevant This text uniquely combines instrumental analysis with organic spectral interpretation IR NMR and MS It provides detailed coverage of sampling sample handling sample storage and sample preparation In addition the authors have included many instrument manufacturers websites which contain extensive resources

**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 *Design, Characterization and Application of Resonant Nano-aperture Near-field Optical Probes* Joseph A. Matteo, 2005 *Mathematics Today*, 2002 **American Laboratory**, 2006 **Chilton's Iron Age**, 1985 **Science** John Michels (Journalist), 2004 A weekly record of scientific progress **Encyclopedia of Medical Devices and Instrumentation, Hydrocephalus, Tools for Diagnosis and Treatment of - Monoclonal Antibodies** John G. Webster, 2006-04-07 The articles in The Encyclopedia of Medical Devices and Instrumentation focus on what is currently useful or is likely to be useful in future medicine They answer the question What are the branches of medicine and how does technology assist each of them Articles focus on the practice of medicine that is assisted by devices rather than including for example the use of drugs to treat disease The title is the only resource on the market dealing with the subject in encyclopedic detail Accessible to practitioners with a broad range of backgrounds from students to researchers and physicians Articles cover the latest developments such as nanotechnology fiber optics and signal processing Highways and Transportation, 1995 Yearbook of International Organizations, 1967 Beginning in 1983 84 published in 3 vols with expansion to 6 vols by 2007 2008 vol 1 Organization descriptions and cross references vol 2 Geographic volume international organization participation vol 3 Subject volume vol 4 Bibliography and resources vol 5 Statistics visualizations and patterns vol 6 Who s who in

international organizations From year to year some slight variations in naming of the volumes **Powder Injection Molding** Randall M. German,2003 Gaylor Technical Survey ,1982 M-libraries Mohamed Ally,Gill Needham,2008 Mobile Phone Ownership is considerably more ubiquitous than internet access via personal computers more and more people around the world are carrying a tiny mobile device of some kind in their pocket or handbag The environment in which people find and use information is changing we are busier we are constantly on the move and whether we are shopping booking a holiday or looking for train times we expect instant results What does all this mean for libraries The development of networked technologies opened up huge opportunities for libraries to make their resources and services accessible to their users regardless of distance The opportunity to deliver these to users via their mobile phones PDAs and other handheld devices will be as significant a challenge Indeed if libraries choose to ignore this challenge they are in danger of being left behind in an increasingly competitive world of information provision and services This authoritative collection of contributions from experts in the field based on the First International M Libraries Conference explores the technical and social context for m libraries describes a range of global initiatives with lessons learned and discusses the potential for future development BOOK JACKET **Japanese Journal of Applied Physics** ,2004 *The Times Index* ,1997 Indexes the Times Sunday times and magazine Times literary supplement Times educational supplement Times educational supplement Scotland and the Times higher education supplement

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THE GLASS MENAGERIE, [MUSIC: 'THE GLASS MENAGERIE' UNDER FAINTLY. Lightly.] Not one gentleman ... [MUSIC: '

THE GLASS MENAGERIE". He stretches out his hand.] Oh, be careful - if ... The Glass Menagerie book script of the play. [SCREEN LEGEND: 'OÙ SONT LES NEIGES."] There was young Champ Laughlin who later became vice-president of the Delta Planters. Bank. The Glass Menagerie - Tennessee Williams (AMANDA exits through living-room curtains. TOM is left with LAURA. He stares at her stupidly for a moment. Then he crosses to shelf holding glass menagerie. The Glass Menagerie Amanda Wingfield is a faded, tragic remnant of Southern gentility who lives in poverty in a dingy St. Louis apartment with her son, Tom, and her daughter, ... The Glass Menagerie When Amanda convinces Tom to bring home from his workplace a "gentleman caller" for Laura, the illusions that Tom, Amanda, and Laura have each created in order ... The Glass Menagerie Text Scene 1: The Wingfield apartment is in the rear of the building, one of those vast hive-like conglomerations of cellular living-units that flower as. Tennessee Williams - The Glass Menagerie (Scene 3) LEGEND ON SCREEN: 'AFTER THE FIASCO' [TOM speaks from the fire-escape landing.] TOM: After the fiasco at Rubicam's Business College, the idea of getting a ... "The Glass Menagerie," Scene One and Scene Two, by ... 41 Scene 1. 352 The Wingfield apartment is in the rear of the building, one of those vast hive-like conglomerations of cellular living-units that flower as ... Tennessee Williams - The Glass Menagerie (Scene 7) A moment after the curtain rises, the lights in both rooms flicker and go out.] JIM: Hey, there, Mr Light Bulb ! [AMANDA laughs nervously. LEGEND: 'SUSPENSION ... The Glass Menagerie: Acting Edition: Tennessee Williams A new introduction by the editor of The Tennessee Williams Annual Review, Robert Bray, reappraises the play more than half a century after it won the New York ... Yookoso Answer Keys | PDF | Languages | Foods 7. b. Answer Key for Workbook/Laboratory Manual. PART TWO LISTENING COMPREHENSION ... Answer Key for Workbook/Laboratory Manual. CHAPTER 6 REVIEW A. and B ... Instructor's Manual Answer Key for Workbook/Laboratory Manual (193.0K) V. Testing Program (187.0 ... Chapter 7. Instructor Resources. Instructor's Manual. Choose a Chapter, Chapter ... Yookoso Workbook Answer Key - Fill Online, Printable ... Fill Yookoso Workbook Answer Key, Edit online. Sign, fax and ... ANSWER KEY CHAPTER 7 Download : Books Workbook Answer Key Chapter 7 BOOKS WORKBOOK ANSWER. Yookoso Workbook Answers - Fill Online ... The purpose of Yookoso workbook answers is to provide guidance and assistance to students using the Yookoso! An Invitation to Contemporary Japanese textbook. japanese workbook answers - Answer Key for... View Lecture Slides - japanese workbook answers from JPS 101 at Syracuse University. Answer Key for Workbook/Laboratory Manual This is the answer key for ... Yookoso 1 Lab Manual Answer Key View Lab - Yookoso 1 Lab Manual Answer Key from JPN 1130 at University of Florida. Answer Key for Workbook/Laboratory Manual This is the answer key for the ... Get Yookoso Workbook Answer Key Complete Yookoso Workbook Answer Key online with US Legal Forms. Easily fill out PDF blank, edit, and sign them. Save or instantly send your ready ... Thoughts on the Yookoso series? : r/LearnJapanese The activities in the textbook have no answers and the workbook answers are only available in the teachers book. The textbook content itself is ... Instructor's Manual Yookoso! - Mheducation Chapter 7: Nature and Culture. 32. Answer Key for Student Edition Listening ...

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