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UV-Visible Reflection Spectroscopy of Liquids



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Guillaume Favre



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UV-Visible Reflection Spectroscopy of Liquids Jukka A. Rätty, Kai-Erik Peiponen, Toshimitsu Asakura, 2013-03-20 An up to date overview of reflectometers used for optical spectroscopy of various kinds of liquids ranging from well known transparent liquids to pathological industrial liquids The book reviews and explains basic materials for anyone wanting to get to know the theory spectral analysis and modern devices needed for the measurement of refractive index and absorption of liquids Moreover the book gives an introduction to reflectivity from optically nonlinear liquids such as liquids containing nanoparticles

Handbook of Analytical Techniques for Forensic Samples Deepak Rawtani, Gaurav Pandey, Maithri Tharmavaram, Chaudhery Mustansar Hussain, 2020-11-28 Handbook of Analytical Techniques for Forensic Samples Current and Emerging Developments discusses in detail the current trends and latest analytical techniques and methods commonly employed in forensic analysis in order to ensure the proper facilitation of justice This book is useful for readers who wish to stay updated on the latest trends in the forensic analysis of samples encountered at crime scenes Technological advancements such as biosensors nanotechnology and taggant technology have upped the level of analysis in forensic science These emergent technologies incorporated with existing analytical techniques are leading to more precise accurate and specific examination of forensic samples Lab on a chip technology has also eased several kinds of on site analyses done by investigating teams at different types of crime scenes This book covers the evolution of forensic sample analysis as well as these emerging trends and new technologies Includes an entire section of experimental exercises for self teaching and key concept review Covers laboratory protocols used in forensic science laboratories for the analysis of various samples through different analytical techniques Condenses the many aspects of forensic analytical chemistry into a single resource with easy to understand language for everyone from students to practitioners

Fundamentals of Semiconductor Lasers Takahiro Numai, 2006-05-10 Fundamentals of Semiconductor Lasers explains the physics and fundamental characteristics of semiconductor lasers with regard to systems applications The detailed and comprehensive presentation is unique in that it encourages the reader to consider different semiconductor lasers from different angles Emphasis is placed on recognizing common concepts such operating principles and structure and solving problems based on individual situations The treatment is enhanced by an historical account of advances in semiconductor lasers over the years discussing both those ideas that have persisted over the years and those that have faded out The first four chapters cover the basics of semiconductors including band structures optical transitions optical waveguides and optical resonators The remaining chapters discuss operating principles and basic characteristics of semiconductor lasers and advanced topics including dynamic single mode lasers quantum well lasers and control of spontaneous emission The reader need only be familiar with undergraduate level electromagnetism and quantum mechanics After reading this book the student will be able to think critically about semiconductor lasers and be able to read and understand journal papers in the field This book will be essential to any

advanced undergraduate or graduate student of semiconductor lasers and any professional physicist or engineer looking for a good overview of the subject

Optoelectronics of Molecules and Polymers André Moliton, 2010-05-30 Optoelectronic devices are currently being developed at an extraordinary rate Organic light emitting diodes photovoltaic devices and electro optical modulators are pivotal to the future of displays photosensors and solar cells and communication technologies This book details the theories underlying the mechanisms involved in the relevant organic materials and covers at a basic level how the organic components are made The first part of the book introduces the fundamental theories used to describe ordered solids and goes onto detail on concepts applicable to localised energy levels Then the methods used to determine energy levels particular to perfectly ordered molecular and macromolecular systems are discussed along with a detailed consideration of the effects of quasi particles The function of excitons and their transfer between two molecules is studied and in addition the problems associated with interfaces and charge injection into resistive media are presented More technological aspects are covered in the second part which details the actual methods used to fabricate devices based on organic materials such as dry etching The principal characterisation techniques are also highlighted Specific attention is paid to visual displays using organic light emitting diodes the conversion of photons into electrical energy the photovoltaic effect and for communications and information technologies the electro optical modulation of signals

Light Scattering by Systems of Particles Adrian Doicu, Thomas Wriedt, Yuri A. Eremin, 2006-10-19 This book develops the theory of the null field method also called T matrix method covering almost all aspects and current applications This book also incorporates FORTRAN programs and simulation results Worked examples of the application of the FORTRAN programs show readers how to adapt or modify the programs for their specific application

Choice, 2004

Optical Frequency-Modulated Continuous-Wave (FMCW) Interferometry Jesse Zheng, 2005-01-04 This book introduces the optical frequency modulated continuous wave FMCW interferometry a new field of optics that is derived from radar The study of optical FMCW interference not only updates our knowledge about the nature of light but also creates an advanced technology for precision measurements The principles applications and signal processing of optical FMCW interference are systematically discussed This book is intended for scientists and engineers in both academia and industry It is especially suited to professionals who are working in the field of measurement instruments

Wavelength Filters in Fibre Optics Herbert Venghaus, 2006-09-21 Information and communication technologies have been growing and developing steadily for as long as any of us can remember Growth was particularly strong in the last few decades and fibre optic communications have become predominant whenever information is to be transmitted over medium or long distances Even when the telecommunication bubble burst at the beginning of the new millennium the only thing which vanished was the expectation of making a fortune by buying and reselling telecom device and equipment manufacturing companies the upgrading of existing fibre optic links and the deployment of new ones continued unabated The reason for the predominance of communication via

optical fibres is the vast amount of information a single fibre can carry. However, in order to take advantage of this potential, it is mandatory to transmit different wavelength channels simultaneously over a single optical fibre, and the handling of these wavelength channels requires wavelength selective devices or wavelength filters. Among the functionalities optical filters have to accomplish are the selection of single or several channels out of a larger number of channels, the separation of one channel wavelength from wanted spurious noise at different wavelengths, filters have to support routing, enable the lossless or low loss combination of wavelengths, and they have to compensate for wavelength dispersion effects. Lidar Claus

Weitkamp, 2006-06-03. Written by leading experts in optical radar or lidar, this book brings all the recent practices up to date. With a Foreword by one of the founding fathers in the area, its broad cross-disciplinary scope should appeal to scientists ranging from the view of optical sciences to environmental engineers. Optical remote sensing has matured to become a lead method for cross-disciplinary research. This new multi-authored book reviews the state of the art in a readable monograph.

Ultrafast Optics IV Ferenc Krausz, Georg Korn, Paul Corkum, Ian A. Walmsley, 2012-08-10. The papers in this volume cover the major areas of research activity in the field of ultrafast optics at the present time, and they have been selected to provide an overview of the current state of the art. The purview of the field is the methods for the generation, amplification, and characterization of electromagnetic pulses with durations from the pico to the attosecond range, as well as the technical issues surrounding the application of these pulses in physics, chemistry, and biology. The contributions were solicited from the participants in the Ultrafast Optics IV Conference held in Vienna, Austria, in June 2003. The purpose of the conference is similar to that of this book: to provide a forum for the latest advances in ultrafast optical technology. Ultrafast light sources provide a means to observe and manipulate events on the scale of atomic and molecular dynamics. This is possible either through appropriate shaping of the time-dependent electric field or through the application of fields whose strength is comparable to the binding forces of the electrons in atoms and molecules. Recent advances discussed here include the generation of pulses shorter than two optical cycles and the ability to measure and to shape them in all degrees of freedom with unprecedented precision and to amplify them to the Zettawatt/cm¹⁰ W/cm range.

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