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Laser-Induced Breakdown Spectroscopy

Theory and Applications

Laser Induced Breakdown Spectroscopy Theory And Applications Springer Series In Optical Sciences

Sergio Musazzi, Umberto Perini



Laser Induced Breakdown Spectroscopy Theory And Applications Springer Series In Optical Sciences:

Laser-Induced Breakdown Spectroscopy Sergio Musazzi, Umberto Perini, 2014-07-08 This book deals with the Laser Induced Breakdown Spectroscopy LIBS a widely used atomic emission spectroscopy technique for elemental analysis of materials It is based on the use of a high power short pulse laser excitation The book is divided into two main sections the first one concerning theoretical aspects of the technique the second one describing the state of the art in applications of the technique in different scientific technological areas Numerous examples of state of the art applications provide the readers an almost complete scenario of the LIBS technique The LIBS theoretical aspects are reviewed The book helps the readers who are less familiar with the technique to understand the basic principles Numerous examples of state of the art applications give an almost complete scenario of the LIBS technique potentiality These examples of applications may have a strong impact on future industrial utilization The authors made important contributions to the development of this field

Laser-Induced Breakdown Spectroscopy in Biological, Forensic and Materials Sciences Gábor

Galbács, 2025-06-19 The 2nd edition of this book builds on the success of its predecessor offering a comprehensive overview of recent advances and emerging applications in the area of laser induced breakdown spectroscopy LIBS The new edition expands LIBS fundamentals and presents new case studies of applications to biological sciences Readers will also find an updated perspective of LIBS applications to forensic and materials sciences LIBS which was previously mainly used by physicists chemists and in the industry has now become a very useful tool with great potential in these other fields as well LIBS has a unique set of characteristics including minimal destructiveness remote sensing capabilities potential portability extremely high information content trace analytical sensitivity and high throughput With its content divided into two main parts this book provides not only an introduction to the analytical capabilities and methodology but also an overview of the results of recent applications in the above fields The application oriented multidisciplinary approach of this work is also reflected in the diversity of the expert contributors Topics added to this new edition include Application of nanostructures in LIBS LIBS food analysis Cancer diagnostics using LIBS LIBS in nuclear and fusion research Microplastics detection using LIBS Tag LIBS in biological applications Given its breadth this book will appeal to students researchers and professionals interested in solving analytical diagnostic material characterization tasks with the application of LIBS Supplementary videos can be accessed online as well as directly from the print book simply download the Springer Nature More Media App for free and scan the links with the play button

Chemometrics and Numerical Methods in LIBS Vincenzo

Palleschi, 2022-10-06 Chemometrics and Numerical Methods in LIBS A practical guide to the application of chemometric methods to solve qualitative and quantitative problems in LIBS analyses Chemometrics and Numerical Methods in LIBS delivers an authoritative and practical exploration of the use of advanced chemometric methods to laser induced breakdown spectroscopy LIBS cases The book discusses the fundamentals of chemometrics before moving on to solutions that can be

applied to data analysis methods It is a concise guide designed to help readers at all levels of knowledge solve commonly encountered problems in the field The book includes three sections LIBS information simplification LIBS classification and quantitative analysis by LIBS Each section of the book is divided into a description of relevant techniques and practical examples of its applications Contributors to this edited volume are the most recognized international experts on the chemometric techniques relevant to LIBS analysis Chemometrics and Numerical Methods in LIBS also includes A thorough introduction to the simplification of LIBS information including principal component analysis independent component analysis and parallel factor analysis Comprehensive explorations of classification by LIBS including spectral angle mapping linear discriminant analysis graph clustering self organizing maps and artificial neural networks Practical discussions of linear methods for quantitative analysis by LIBS including calibration curves partial least squares regression and limit of detection In depth examinations of multivariate analysis and non linear methods including calibration free LIBS the non linear Kalman filter artificial and convolutional neural networks for quantification Relevant for researchers and PhD students seeking practical information on the application of advanced statistical methods to the analysis of LIBS spectra Chemometrics and Numerical Methods in LIBS will also earn a place in the libraries of students taking courses involving LIBS spectro analytical techniques

Proceedings of the 7th International Conference on the Applications of Science and Mathematics 2021 Aida Binti Mustapha, Suhadir Shamsuddin, Syed Zuhaib Haider Rizvi, Saliza Binti Asman, Siti Suhana Jamaian, 2022-06-28 This book presents peer reviewed articles and recent advances on the potential applications of Science and Mathematics for future technologies from the 7th International Conference on the Applications of Science and Mathematics SCIEMATHIC 2021 held in Malaysia It provides an insight about the leading trends in sustainable Science and Technology The world is looking for sustainable solutions to problems more than ever The synergistic approach of mathematicians scientists and engineers has undeniable importance for future technologies With this viewpoint SCIEMATHIC 2021 has the theme Quest for Sustainable Science and Mathematics for Future Technologies The conference brings together physicists mathematicians statisticians and data scientists providing a platform to find sustainable solutions to major problems around us The works presented here are suitable for professionals and researchers globally in making the world a better and sustainable place

Spectroscopy, Diffraction and Tomography in Art and Heritage Science Mieke Adriaens, Mark Dowsett, 2021-07-03 Spectroscopy Diffraction and Tomography in Art and Heritage Science gives an overview of the main spectroscopy and diffraction techniques currently available for cultural heritage research It starts with an introductory general discussion of spectroscopy and diffraction and the kinds of information they can give Further sections deal with respectively typical laboratory methods mobile equipment and large scale instruments and infrastructural methods The work concludes with comments on combining and comparing multiple techniques sources of error and limitations of the analytical methods Explains spectroscopy and diffraction techniques in detail yet remains accessible to

those without a chemistry or physics background Provides explanations of commonly used terms such as destructive non destructive non invasive in situ and ex situ and their sometimes misleading origins Includes real world examples that demonstrate how each technique is used in the field Highlights the complementary use of different analytical techniques in fully interpreting the data

Chemical Analysis in Cultural Heritage Luigia Sabbatini, Inez Doroth   van der Werf, 2020-02-24 Chemical Analysis provides non invasive and micro analytical techniques for the investigation of cultural heritage materials The tools and techniques discussed by experts in the field are of universal sensitive and multi component nature

Portable Spectroscopy and Spectrometry, Technologies and Instrumentation Richard A. Crocombe, Pauline E. Leary, Brooke W. Kammrath, 2021-03-31 Provides complete and up to date coverage of the foundational principles enabling technologies and specific instruments of portable spectrometry Portable Spectroscopy and Spectrometry Volume One is both a timely overview of the miniature technologies used in spectrometry and an authoritative guide to the specific instruments employed in a wide range of disciplines This much needed resource is the first comprehensive work to describe the enabling technologies of portable spectrometry explain how various handheld and portable instruments work discuss their potential limitations and provide clear guidance on optimizing their utility and accuracy in the field In depth chapters written by a team of international authors from a wide range of disciplinary backgrounds have been carefully reviewed both by the editors and by third party experts to ensure their quality and completeness Volume One begins with general discussion of portable spectrometer engineering before moving through the electromagnetic spectrum to cover x ray fluorescence XRF UV visible near infrared mid infrared and Raman spectroscopies Subsequent chapters examine microplasmas laser induced breakdown spectroscopy LIBS nuclear magnetic resonance NMR spectroscopy and a variety of portable mass spectrometry instrument types Featuring detailed chapters on DNA instrumentation and biological analyzers topics of intense interest in light of the global coronavirus pandemic this timely volume Provides comprehensive coverage of the principles and instruments central to portable spectroscopy Includes contributions by experienced professionals working in instrument companies universities research institutes the military and hazardous material teams Discusses special topics such as smartphone spectroscopy optical filter technology stand off detection and MEMS MOEMS technology Covers elemental spectroscopy optical molecular spectroscopy mass spectrometry and molecular and imaging technologies Portable Spectroscopy and Spectrometry Volume One is an indispensable resource for developers of portable instruments civilian and government purchasers and operators and teachers and students of portable spectroscopy When combined with Volume Two which focuses on the multitude of applications of portable instrumentation Portable Spectroscopy and Spectrometry provides the most thorough coverage of the field currently available

Best Practices of GeoInformatic Technologies for the Mapping of Archaeolandscapes Apostolos Sarris, 2015-11-30 Twenty five papers from the Institute for Mediterranean Studies in Crete provide a best practice guide for the use of geophysical geoarchaeological geochemical and surveying techniques to study ancient landscapes

Analytical Strategies for Cultural Heritage Materials and their Degradation Juan Manuel Madariaga,2021-01-04

Reviewing the analytical strategies used in the study of cultural heritage assets such as movable artworks and archaeological items and immovable objects like mural paintings archaeological sites and historical buildings this book pays particular attention to analytical methodology It is not always necessary to use new and sophisticated instrumentation what is important is how the instruments are used to obtain reliable reproducible and repetitive results in view of the problems to be solved The book considers the influence of the environment on the conservation state including degradation and how modern analytical methods have improved the analysis of materials It emphasizes multi method approaches on a range of materials an approach that is of keen interest to those working in conservation practice Primarily aimed at final year undergraduate study and masters level students it would also be useful as supplementary reading for postgraduates and academics who require analytical techniques to enhance their research

Spectroscopic Techniques For Semiconductor Industry Vladimir Protopopov,2022-10-21 The unique compendium presents special principles and techniques of spectroscopic measurements that are used in semiconductor manufacturing Since industrial applications of spectroscopy are significantly different from those traditionally used in scientific laboratories the design concepts and characteristics of industrial spectroscopic devices may vary significantly from conventional systems These peculiarities are thus succinctly summarized in this volume for a wide audience of students engineers and scientific workers Exceptionally well illustrated with practical solutions in detail this useful reference text will open new horizons in new research areas

Geology and Mineralogy of Gemstones David P. Turner, Lee A. Groat,2022-03-02 Understanding gemstones in a geological context Gemstones are colorful treasures of the Earth that have captivated humans for thousands of years The physical and chemical characteristics of each type of gem provide insights into the geological processes that created them Geology and Mineralogy of Gemstones is a textbook aimed at upper level undergraduate and graduate students It presents the basic mineralogical and geological knowledge needed to understand gemstones and examines the characteristics and geological origins of different types of gemstone Volume highlights include Concepts in mineralogy Structure and chemical composition of minerals Geological processes that lead to the formation and movement of gemstones Equipment and tools used to examine gemstones and their physical properties The American Geophysical Union promotes discovery in Earth and space science for the benefit of humanity Its publications disseminate scientific knowledge and provide resources for researchers students and professionals

Conserving Stone Heritage Francesca Gherardi, Pagona Noni Maravelaki,2022-01-12 The design of treatments for the conservation of stone in historical buildings and works of art is a challenging task as a deep understanding of the working properties and performance of the available products and methods is required to tackle complex decay patterns The chapters in this book illustrate the state of the art on traditional and innovative materials and methods for stone conservation examining current trends and future perspectives Each of them is focused on describing the consequent phases that complement the spectrum

of the conservation intervention preliminary investigations condition assessment and mapping of the deterioration patterns surface cleaning with a specific focus on laser technology consolidation protection repair mortars and grouts and onsite assessment and monitoring of conservation treatments The performance of the applied conservation interventions is criticized and discussed with an aim of providing the specialists with specific tools for stone conservation This book intends to bridge the gap between laboratory studies and conservation interventions by linking together the diverse scientific areas involved in the preservation of stone heritage Different case studies are included highlighting specific conservation challenges and their solutions in order to understand and overcome them The aim is to guide conservators conservation scientists and heritage stakeholders in the selection of compatible and sustainable materials and techniques for Conserving Stone Heritage

Nairi Lands Guido Guarducci, 2019-12-19 This study analyses the social and symbolic value of the material culture in particular the pottery production and the architecture and the social structure of the local communities of a broad area encompassing Eastern Anatolia the South Caucasus and North western Iran during the last phase of the Late Bronze Age and the Early Iron Age This broad area is known from the Assyrian texts as Nairi lands The second part of the study furnishes a reassessment of pottery production characteristics and theories as well as of the socio economic structure and issues tied to the sedentary and mobile local communities of the Nairi lands The study brings into focus the characteristics the extension and the distribution of Grooved pottery along with other pottery typologies by providing an accompanying online catalogue with detailed descriptions and high resolution images of the pots and sherds obtained from public and private institutions in Turkey and Armenia Moreover the socio political organisation and subsistence economy issues are addressed in order to advance a possible reconstruction of the social structure of the Nairi lands communities Particular attention is devoted to the pastoral nomad component and the role played within the Nairi phenomenon The study includes a very large corpus of text images and high resolution color images of the pottery of the area under examination gathered by the author in order to offer a reliable tool and compendium

Laser-Induced Breakdown Spectroscopy Jagdish P. Singh, Surya N. Thakur, 2020-06-02 Laser Induced Breakdown Spectroscopy Second Edition covers the basic principles and latest developments in instrumentation and applications of Laser Induced Breakdown Spectroscopy LIBS Written by active experts in the field it serves as a useful resource for analytical chemists and spectroscopists as well as graduate students and researchers engaged in the fields of combustion environmental science and planetary and space exploration This fully revised second edition includes several new chapters on new LIBS techniques as well as several new applications including flame and off gas measurement pharmaceutical samples defense applications carbon sequestration and site monitoring handheld instruments and more LIBS has rapidly developed into a major analytical technology with the capability of detecting all chemical elements in a sample of real time response and of close contact or stand off analysis of targets It does not require any sample preparation unlike conventional spectroscopic analytical techniques Samples in the

form of solids liquids gels gases plasmas and biological materials like teeth leaves or blood can be studied with almost equal ease This comprehensive reference introduces the topic to readers in a simple direct and accessible manner for easy comprehension and maximum utility Covers even more applications of LIBS beyond the first edition including combustion soil physics environment and life sciences Includes new chapters on LIBS techniques that have emerged in the last several years including Femtosecond LIBS and Molecular LIBS Provides inspiration for future developments in this rapidly growing field in the concluding chapter

Springer Handbook of Lasers and Optics Frank Träger, 2012-05-05 This new edition features numerous updates and additions Especially 4 new chapters on Fiber Optics Integrated Optics Frequency Combs and Interferometry reflect the changes since the first edition In addition major complete updates for the chapters Optical Materials and Their Properties Optical Detectors Nanooptics and Optics far Beyond the Diffraction Limit Features Contains over 1000 two color illustrations Includes over 120 comprehensive tables with properties of optical materials and light sources Emphasizes physical concepts over extensive mathematical derivations Chapters with summaries detailed index Delivers a wealth of up to date references

Raman Spectroscopy in Cultural Heritage Preservation Howell G. M. Edwards, Peter Vandenabeele, Philippe Colomban, 2022-10-13 This book addresses the application of Raman spectroscopic techniques to a range of diverse problems which arise in the study conservation and restoration of artefacts and sites closely related to our cultural heritage as well as in authentication These themes are naturally wider than what at first might be considered as artworks and archaeological artefacts and the topics include pigments paintings ceramics glass sculpture and patination corrosion textiles industrial archaeology the degradation and preservation of biomaterials mummies and human skeletal remains An interesting feature is the inclusion of modern case studies which describe specific problems and approaches to the Raman spectral analysis of items important to our cultural heritage The text is prefaced with an introduction to the important parameters used in nondestructive Raman measurements and also highlights some future applications based upon novel miniaturised instrumentation for in field studies and potential screening work which will identify specimens which would repay further studies in the laboratory An attempt is made to give a snapshot of the state of the art evolution since the beginning of the technique 1970s and to point out potential further development The book is co edited by three international experts with many years experience in the application of Raman spectroscopy to artworks archaeological artefacts and in the investigation of materials and sites for cultural heritage preservation and each editor has undertaken to write individual chapters and different topics personally The adopted approach is designed to convey the sort of information which has become available from the adoption of analytical Raman spectroscopy to different problems in the field of cultural heritage preservation through the spectral interrogation of artefacts and how the interpretation of the spectral data can assist museum curators archaeologists and cultural heritage historians in the preservation and conservation of ancient materials and sites a particular advantage in this respect is the ability of Raman spectroscopy to

determine generally in a strictly noninvasive procedure at the laboratory or on site with mobile instruments the presence of both organic and inorganic components in a particular specimen together nondestructively without any chemical and mechanical pretreatment being undertaken which is an essential requirement for rare and valuable samples An important aside from this work is the means of spectral identification of ongoing biodeterioration and biological colonisation in specimens in storage and the effects of environmental deterioration such as humidity and temperature upon their integrity

Encyclopedia of Spectroscopy and Spectrometry, 2016-09-22 This third edition of the Encyclopedia of Spectroscopy and Spectrometry Three Volume Set provides authoritative and comprehensive coverage of all aspects of spectroscopy and closely related subjects that use the same fundamental principles including mass spectrometry imaging techniques and applications It includes the history theoretical background details of instrumentation and technology and current applications of the key areas of spectroscopy The new edition will include over 80 new articles across the field These will complement those from the previous edition which have been brought up to date to reflect the latest trends in the field Coverage in the third edition includes Atomic spectroscopy Electronic spectroscopy Fundamentals in spectroscopy High Energy spectroscopy Magnetic resonance Mass spectrometry Spatially resolved spectroscopic analysis Vibrational rotational and Raman spectroscopies The new edition is aimed at professional scientists seeking to familiarize themselves with particular topics quickly and easily This major reference work continues to be clear and accessible and focus on the fundamental principles techniques and applications of spectroscopy and spectrometry Incorporates more than 150 color figures 5 000 references and 300 articles for a thorough examination of the field Highlights new research and promotes innovation in applied areas ranging from food science and forensics to biomedicine and health Presents a one stop resource for quick access to answers and an in depth examination of topics in the spectroscopy and spectrometry arenas Laser: Theorie, Typen und

Anwendungen Markus Werner Sigrist, 2018-09-03 Das vorliegende Buch bietet einen fundierten Einstieg in Theorie und Anwendungen des Lasers Es enth lt eine ausf hrliche Beschreibung und Daten aller Lasertypen mit Hinweisen auf die vielf ltigen Anwendungen die von der Materialbearbeitung Holographie Spektroskopie bis zur Medizin reichen Neben den klassischen Lasern wie Rubin oder CO2 Laser werden auch aktuelle Entwicklungen insbesondere im Bereich der Halbleiter und Festk rperlaser behandelt Die 8 Auflage wurde um neue Kapitel zu Interbandkaskadenlaser Frequenzk mmen und Wei lichtlaserquellen neusten Entwicklungen verschiedener Lasertypen inkl Femtosekundenlasern und deren vielf ltigen Anwendungen sowie einem Kapitel ber Lasersicherheit erweitert Das umfassende Literaturverzeichnis wurde auf den neusten Stand gebracht Das Werk richtet sich an Studierende der Physik Ingenieur und Naturwissenschaften an Universit ten Technischen Hochschulen und Fachhochschulen Es eignet sich aber auch f r Anwender Ingenieure und Techniker

Spectroscopy, Dynamics and Molecular Theory of Carbon Plasmas and Vapors Laszlo Nemes, Stephan Irle, 2011 Ch 1 Spectroscopy of carbon nanotube production processes B A Cruden ch 2 Spectroscopic studies on laser produced carbon

vapor K Sasaki ch 3 Kinetic and diagnostic studies of carbon containing plasmas and vapors using laser absorption techniques J Ropcke A Rousseau and P B Davies ch 4 Spectroscopy of carbon containing diatomic molecules J O Hornkohl L Nemes and C Parigger ch 5 Optical emission spectroscopy of C symbol and C symbol molecules in laser ablation carbon plasma N A Savastenko and N V Tarasenko ch 6 Intra cavity laser spectroscopy of carbon clusters S Raikov and L Boufendi ch 7 Dynamics of laser ablated carbon plasma for thin film deposition spectroscopic and imaging approach R K Thareja and A K Sharma ch 8 Laser spectroscopy of transient carbon species in the context of soot formation V Nevrlý und weitere ch 9 Developing new production and observation methods for various sized carbon nanomaterials from clusters to nanotubes T Sugai ch 10 Potential model for molecular dynamics of carbon A M Ito and H Nakamura ch 11 Electronic and molecular structures of small and medium sized carbon clusters V Parasuk ch 12 Vibrational spectroscopy of linear carbon chains C P Chou und weitere ch 13 Dynamics simulations of fullerene and SWCNT formation S Irle und weitere ch 14 Mechanisms of carbon gasification reactions using electronic structure methods J F Espinal T N Truong and F Mondragon

Biomedical Spectroscopy Kartha V B, Santhosh C, 2024-12-06 This book discusses biomedical spectroscopy and the applications of spectroscopic techniques in advanced medical technology Applicable to scientists and medical professionals the aim of this work is to enable them to work together in this field so that healthcare facilities can be made routinely available in a cost effective manner especially for developing countries which may not be able to afford universal healthcare with present day expensive medical technologies The subject matter of this book also covers Instrumentation Experimental Techniques and Computational Methods Spectroscopy of Animal Models Microspectroscopy for Biomedical Applications Clinical Applications of Optical Spectroscopy Spectroscopy of Human Models Print edition not for sale in South Asia India Sri Lanka Nepal Bangladesh Pakistan and Bhutan

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Introduction

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