

SoftX.org

A.G. Michette

Soft X-Ray Spectromicroscopy of Environmental and Biological Samples Julia Maria Sedlmair, 2011 Soft x-ray spectromicroscopy was used to investigate environmental and biological specimens paying particular attention to their carbon content, of organic or anthropogenic origin. To be more specific, energies in the spectral region of the so-called water window, between the K absorption edges of carbon (284 eV) and oxygen (523 eV), were applied. In this region the absorbance of substances of high carbon content such as proteins is ten times higher than the absorbance of water which provides natural contrast and in turn allows for a natural or close to natural environment for such samples. The experiments presented in this thesis were chosen in such a way that either new instruments or new analysis methods are studied on different non-model sample specimens. To understand the effect of nanoparticles on the environment, the interaction between carbon nanotubes and soil was monitored, both in dry and aqueous sample environment. Additionally, for the characterization of heterogeneous samples like soils, spectroscopic experiments with a laser driven plasma source were performed. It demonstrated the feasibility of such a complementary technique, if not sometimes alternative to NEXAFS studies using synchrotron radiation. In the third project the possibility to image vascular smooth muscle cells without the necessity of additional embedding or staining was inquired, but by applying a simple, non-cryo fixation sample preparation.

Optical Technologies for Extreme-Ultraviolet and Soft X-ray Coherent Sources Federico Canova, Luca Poletto, 2015-08-17 The book reviews the most recent achievements in optical technologies for XUV and X-ray coherent sources. Particular attention is given to free-electron-laser facilities, but also to other sources available at present, such as synchrotrons, high-order laser

harmonics and X-ray lasers. The optical technologies relevant to each type of source are discussed. In addition, the main technologies used for photon handling and conditioning, namely multilayer mirrors, adaptive optics, crystals and gratings are explained. Experiments using coherent light received during the last decades a lot of attention for the X-ray regime. Strong efforts were taken for the realization of almost fully coherent sources, e.g. the free-electron lasers, both as independent sources in the femtosecond and attosecond regimes and as seeding sources for free-electron-lasers and X-ray gas lasers. In parallel to the development of sources, optical technologies for photon handling and conditioning of such coherent and intense X-ray beams advanced. New problems were faced for the realization of optical components of beamlines demanding to manage coherent X-ray photons, e.g. the preservation of coherence and time structure of ultra short pulses.

Soft X-ray Emission Spectra of Metallic Solids United States. National Bureau of Standards. Metallurgy Division, Archie Joseph McAlister, 1974

Time-Resolved Soft X-Ray Absorption Spectroscopy of Molecules in the Gas and Liquid Phases Cédric Schmidt, 2021-03-19 This work studies the relaxation dynamics of molecules in both the gas and liquid phases after strong field ionization, using transient absorption in the soft X-rays. In particular, the thesis presents the first realization of time-resolved X-ray absorption spectroscopy in the spectral water window with a laser-based HHG source. These remarkable experiments were not only performed for isolated molecules, but also in liquids, for which the spectral coverage of the K-edges of C, N, and O are of primary importance for investigating biological molecules. The technique relies on the generation of high-order harmonics to further probe the electronic structure of molecules. Using the atomic selectivity of high energies and the temporal coherence of laser technology, we demonstrate the observation of the first stages of chemical transformation of matter

in the gas and liquid phases.

Small-scale Spatial Fluctuations in the Soft X-ray Background Kip D. Kuntz, 2000

Soft X-Rays and Extreme Ultraviolet Radiation David Attwood, 2007-02-22 This detailed, comprehensive book describes the fundamental properties of soft X-rays and extreme ultraviolet (EUV) radiation and discusses their applications in a wide variety of fields, including EUV lithography for semiconductor chip manufacture and soft X-ray biomicroscopy. The author begins by presenting the relevant basic principles such as radiation and scattering, wave propagation, diffraction, and coherence. He then goes on to examine a broad range of phenomena and applications. The topics covered include spectromicroscopy, EUV astronomy, synchrotron radiation, and soft X-ray lasers. The author also provides a wealth of useful reference material such as electron binding energies, characteristic emission lines and photo-absorption cross-sections. The book will be of great interest to graduate students and researchers in engineering, physics, chemistry, and the life sciences. It will also appeal to practising engineers involved in semiconductor fabrication and materials science.

VUV and Soft X-Ray Photoionization Uwe Becker, David A. Shirley, 2012-12-06 Leading investigators offer the first comprehensive study of gas phase photoionization research in the VUV and soft X-ray regime since the massive employment of synchrotron radiation as a spectroscopic tool. Chapters cover all aspects of photoionization phenomena from total cross sections to highly differentiated measurements such as coincidence experiments and spin-resolved electron spectroscopy. This work is abundant with illustrations.

Ultraviolet and Soft X-Ray Free-Electron Lasers Peter Schmüser, Martin Dohlus, Jörg Rossbach, 2008-09-18 The high scientific interest in coherent X-ray light sources has stimulated

world-wide efforts in developing X-ray lasers. In this book a particularly promising approach is described, the free-electron laser (FEL), which is pursued worldwide and holds the promise to deliver ultra-bright X-ray pulses of femtosecond duration. Other types of X-ray lasers are not discussed nor do we try a comparison of the relative virtues and drawbacks of different concepts. The book has an introductory character and is written in the style of a university textbook for the many new comers to the field of free-electron lasers, graduate students as well as accelerator physicists, engineers and technicians; it is not intended to be a scientific monograph for the experts in the field. Building on lectures by one of us (J. R.) at the CERN Accelerator School, and motivated by the positive response to a series of seminars on “FEL theory for pedestrians”, given by P. S. within the framework of the Academic Training Program at DESY, we have aimed at presenting the theory of the low-gain and the high-gain FEL in a clear and concise mathematical language. Particular emphasis is put on explaining and justifying the assumptions and approximations that are needed to obtain the differential equations describing the FEL dynamics. Although we have tried our best to be “simple”, the mathematical derivations are certainly not always as simple as one would like them to be. However, we are not aware of any easier approach to the FEL theory. Some of the more involved calculations are put into the appendices.

Lensless Holography Methods for Soft X-ray Resonant Coherent Imaging Diling Zhu, 2010
 The ability to interpret and inverse x-ray diffraction patterns from crystals has largely shaped our understanding of the structure of matter. However, structure determination of noncrystalline objects from their diffraction patterns is a much more difficult task. The dramatic increase in available coherent x-ray photon flux over the past decade has made possible a technique known as lensless coherent diffractive imaging (CDI), that addresses exactly this problem. The central question around

CDI is the so-called phase problem: upon detection of the diffraction intensity, the phase information of the diffracted wave is inevitably lost. Generally, the phase problem is approached using iterative phase retrieval algorithms. Holographic methods, through interference with reference diffractions, encode the phase information directly inside the measured x-ray holograms, and are therefore able to avoid the stagnation and uniqueness problems commonly encountered by the iterative algorithms. This dissertation discusses two novel holographic methods for coherent lensless imaging using resonant soft x-rays. The first part focuses on generalizing the multiple-wavelength anomalous diffraction technique, a highly successful method for solving the crystal structures of biomacromolecules, into a multiple-wavelength holography technique for nanoscale resonant x-ray imaging. Using this method I show element specific reconstructions of nanoparticles and magnetization distribution in magnetic thin films with sub 50 nm resolution. The second part discusses progress in X-ray Fourier holography, an ultrafast lensless imaging platform that can be used with the upcoming x-ray free electron lasers. In particular, I will present experiments using two novel types of extended reference structures that bring the resolution beyond the precision of reference fabrication, previously regarded as the resolution limit for x-ray Fourier transform holography. Finally, future applications of holographic methods, especially experimental considerations for time-resolved studies of nanostructures using X-FELs, will be discussed.

Soft X-Ray Emission from Clusters of Galaxies and Related Phenomena R. Lieu, Jonathan Mittaz, 2013-11-09 Since the discovery of the cluster soft excess (CSE) over eight years ago, its properties and origin have been the subject of debate. With the recent launch of new missions such as XMM-Newton and FUSE, we are beginning to answer some of the complex issues regarding the phenomenon. This conference proceedings is an attempt to bring together the latest research results

and covers both observational and theoretical work on the CSE and related topics. One of the main topics is the possible relationship between the CSE and the warm-hot intergalactic medium (WHIM), which is believed to harbor 50% of the baryons in the near Universe. New data from both XMM-Newton and FUSE have indicated a possible causal link between the WHIM and CSE. Evidence is based on the apparent detection of O VII emission lines in the soft excess spectrum of the outskirts of several clusters, as well as reports of absorption lines at local and higher redshifts (seen in the spectra of distant sources) as signature of the WHIM. However, while there has been considerable optimism in attributing a substantial fraction of the cluster soft excess flux to WHIM emission, other work shows that, for example, the amount of WHIM material predicted by theoretical simulations falls way short of that necessary to account for the CSE. Other work indicates that at the cores of some cluster this excess emission is so strong, it is impossible to invoke the thermal model without at the same time enlisting radically new physics. Thus alternative interpretations involving non-thermal processes are also reported and being pursued in earnest. Whatever the origin of CSE may turn out to be, results in this book show that it has become beyond reasonable doubt that the phenomenon itself is observationally established. This book reports the scientific progress made by bringing together scientists from a wide range of disciplines. It clearly demonstrates the importance of such meetings and participants if we are to solve this puzzle. This volume is aimed at scientists and graduate students in astronomy who want to learn about the latest results on cluster soft excess observations and theoretical implications.

Soft X-ray Optics Eberhard Spiller, 1994 This text describes optics mainly in the 10 to 500 angstrom wavelength region. These wavelengths are 50 to 100 times shorter than those for visible light and 50 to 100 times longer than the wavelengths of medical x rays or x-ray diffraction from

natural crystals. There have been substantial advances during the last 20 years, which one can see as an extension of optical technology to shorter wavelengths or as an extension of x-ray diffraction to longer wavelengths. Artificial diffracting structures like zone plates and multilayer mirrors are replacing the natural crystals of x-ray diffraction. Some of these structures can now be fabricated to have diffraction-limited resolution. The new possibilities are described in a simple, tutorial way.

Optical Systems for Soft X Rays A.G. Michette, 2012-12-06 A fundamental problem in cell biology is the cause of aging. The solution to this problem has not yet been obtained because, (1) until recently, it was not possible to image living cells directly. The use of low-energy (soft) X rays has made such imaging possible, perhaps thereby allowing the aging process to be understood and possibly overcome (a result that may well generate further social, moral, and ethical problems). Fortunately this is not the only aspect of cell biology amenable to soft X-ray imaging, and it is envisaged that many less controversial studies--such as investigations of the detailed differences between healthy and diseased or malignant cells (in their natural states) and processes of cell division and growth--will be made possible. The use of soft X rays is not limited to biological studies--many applications are possible in, for example, fusion research, materials science, and astronomy. Such studies have only recently begun in earnest because several difficulties had to be overcome, major among these being the lack (for some purposes) of sufficiently intense sources, and the technological difficulties associated with making efficient optical systems. As is well known, the advent of dedicated synchrotron radiation sources, in particular, has alleviated the first of these difficulties, not just for the soft X-ray region. It is the purpose of this book to consider progress in the second.

Optical Systems for Soft X Rays A.G. Michette, 1984 A fundamental problem in cell biology is

the cause of aging. The solution to this problem has not yet been obtained because, (1) until recently, it was not possible to image living cells directly. The use of low-energy (soft) X rays has made such imaging possible, perhaps thereby allowing the aging process to be understood and possibly overcome (a result that may well generate further social, moral, and ethical problems). Fortunately this is not the only aspect of cell biology amenable to soft X-ray imaging, and it is envisaged that many less controversial studies--such as investigations of the detailed differences between healthy and diseased or malignant cells (in their natural states) and processes of cell division and growth--will be made possible. The use of soft X rays is not limited to biological studies--many applications are possible in, for example, fusion research, materials science, and astronomy. Such studies have only recently begun in earnest because several difficulties had to be overcome, major among these being the lack (for some purposes) of sufficiently intense sources, and the technological difficulties associated with making efficient optical systems. As is well known, the advent of dedicated synchrotron radiation sources, in particular, has alleviated the first of these difficulties, not just for the soft X-ray region. It is the purpose of this book to consider progress in the second.

Annotated Bibliography on Soft X-ray Spectroscopy Harvey Yakowitz, J. R. Cuthill, 1962

New Directions in Research with Third-Generation Soft X-Ray Synchrotron Radiation

Sources A.S. Schlachter, F.J. Willeumier, 2012-12-06 Soft X-rays are a powerful probe of matter. They interact selectively with electrons in atoms and molecules and can be used to study atomic physics, chemical reactions, surfaces and solids, and biological entities. Over the past 20 years, synchrotrons have emerged as powerful sources of soft X-rays for experimental use. A new, third generation of synchrotron light sources is scheduled to start operation over the next few years, beginning in 1993. These facilities are distinguished by their ultra-low emittance electron beams and

by their undulators -- precisely engineered magnetic devices that cause the electrons passing through them to produce highly coherent X-rays and ultraviolet light of unprecedented spectral brightness. This volume emphasizes third-generation sources that produce light in the 10 eV--10 KeV energy range. It describes potential applications ranging from the purely scientific to the commercially viable and includes chapters on the practical aspects of designing undulators and beam line optics. Unique in its coverage, the book is a vital addition to the library of any scientist who needs information on the world's most advanced imaging and spectroscopic techniques.

(ABSTRACT) This volume emphasizes the applications of new third generation synchrotron radiation sources that produce light in the ultraviolet and soft X-ray range of the spectrum. The unprecedented brightness of this light enables experiments to be conducted with greatly increased spatial and spectral resolution. Scientists can exploit these properties for imaging and spectroscopic applications that until now were impossible or impractical. Prominent researchers in the field describe these applications and others made possible by the light's pulsed time structure and polarization. The volume also includes chapters on the practical aspects of designing undulators and beam line optics.

Radiation characteristics of extreme UV and soft X-ray sources Tobias Mey,2015

Electromagnetic radiation in the extreme UV and soft x-ray spectral range is of steadily increasing importance in fundamental research and industrial applications. An optimum use of the available photons can only be achieved under condition of a comprehensive beam characterization. Following that goal, this work addresses the pathway of extreme UV and soft x-ray radiation from its generation, through the beam transport by the beamline to the probe position. Experimentally, those aspects are optimized at a laser-produced plasma source and at an arrangement for the generation

of high-harmonics. Additionally, the coherence of laser beams is analyzed by measurements of the Wigner distribution function. This method is applied to the photon beam of the free-electron laser FLASH, resulting in the entire characterization of its propagation properties.

A Study of Metal Surfaces with Soft X-rays Collis Matterson Bardin, 1925

The Absorption Coefficients of Soft X-rays ... Carl Danforth Miller, 1916

Observations of the Diffuse Soft X-ray Background from 0.07 to 1.0 KEV Jeffrey Joseph Bloch, 1988

Soft X-ray and EUV Imaging Systems, 2001

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Table of Contents SoftX.org

1. Understanding the eBook SoftX.org
 - The Rise of Digital Reading SoftX.org
 - Advantages of eBooks Over Traditional Books
2. Identifying SoftX.org
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an SoftX.org
 - User-Friendly Interface
4. Exploring eBook Recommendations from SoftX.org
 - Personalized Recommendations
 - SoftX.org User Reviews and Ratings
 - SoftX.org and Bestseller Lists
5. Accessing SoftX.org Free and Paid eBooks
 - SoftX.org Public Domain eBooks
 - SoftX.org eBook Subscription Services
 - SoftX.org Budget-Friendly Options
6. Navigating SoftX.org eBook Formats
 - ePub, PDF, MOBI, and More
 - SoftX.org Compatibility with Devices
 - SoftX.org Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of SoftX.org
 - Highlighting and Note-Taking SoftX.org
 - Interactive Elements SoftX.org
8. Staying Engaged with SoftX.org
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers SoftX.org
9. Balancing eBooks and Physical Books SoftX.org
 - Benefits of a Digital Library

- Creating a Diverse Reading Collection SoftX.org
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine SoftX.org
 - Setting Reading Goals SoftX.org
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of SoftX.org
 - Fact-Checking eBook Content of SoftX.org
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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