



# ***Gratings and Grating Monochromators for Synchrotron Radiation***

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31 July 1997  
San Diego, California



Volume 3150

# Gratings Grating Monochromators For Synchrotron Radiation V315

**Karin Nielsen-Saines**



## **Gratings Grating Monochromators For Synchrotron Radiation V315:**

**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 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 **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 to 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. **Handbook on Synchrotron Radiation** G.V. Marr, 2013-10-22 Volume 2 of this series

concentrates on the use of synchrotron radiation which covers that region of the electromagnetic spectrum which extends from about 10eV to 3keV in photon energy and is essentially the region where the radiation is strongly absorbed by atmospheric gases. It therefore has to make extensive use of a high vacuum to transport the radiation to the workstation where the presence of hard X rays can cause extensive damage to both the optics and the targets used in the experimental rigs. The topics chosen for this volume have been limited to the disciplines of physics and chemistry.

**Gratings and Grating Monochromators for Synchrotron Radiation** Wayne R. McKinney, Christopher A. Palmer, 1997 *Proceedings of the 11th International Conference on Vacuum Ultraviolet Radiation Physics* T. Miyahara, Y. Azuma, M. Watanabe, T. Ishii, 2012-12-02. These volumes contain 365 of the 505 papers presented at the VUV 11 Conference held at Rikkyo University Tokyo from August 27th to September 1st 1995. The papers are divided into three sections: atomic and molecular spectroscopy, solid state spectroscopy, and instrumentation and technological applications. New aspects presented were both quantitative and qualitative improvements in fluorescence spectroscopy and magnetic circular dichroism measurements. The fluorescence data are complementary to those of photoemission in a sense but they appear to open up a new method to analyze the optical excitation and relaxation processes. The application of magnetic circular dichroism has proved to be useful not only in analyzing the electronic structures of magnetic materials but also in practical applications to material engineering as found in experiments combined with photoelectron microscopy. Excellent developments in applications are only found in the field of surface photochemistry where the technique of etching using VUV light has been appreciably refined. Although the majority of distinctive scientific features in the VUV 11 Conference have been brought about by the application of synchrotron radiation, experiments using a different type of light source appear to have progressed steadily. This is evident in the studies of plasma radiation.

**INIS Atomindex**, 1980 *Selected Papers on VUV Synchrotron Radiation Instrumentation* D. L. Ederer, 1998. This volume contains 92 papers on VUV synchrotron radiation instrumentation. Areas addressed include high resolution X ray spectroscopy using synchrotron radiation, the classical radiation of accelerated electrons, and the design of holographic concave gratings for Seya Namioka monochromators.

*Light Propagation in Periodic Media* Michel Neviere, Evgeny Popov, 2018-10-03. Based on more than 30 years of research on differential theories of gratings, this book describes developments in differential theory for applications in spectroscopy, acoustics, X ray instrumentation, optical communication, information processing, photolithography, high power lasers, high precision engineering, and astronomy. Introducing the Fast Fourier Factorization approach to improve the convergence of a truncated series, the book examines multilayers, stacked gratings, crossed gratings, photonic crystals, and isotropic and anisotropic materials. Techniques and examples in grating design and Maxwell equations in a truncated Fourier space.

**Journal of the Optical Society of America**, 1982 *Handbook on Synchrotron Radiation* Ernst-Eckhard Koch, 1983 **International Tables for Crystallography, Volume I** Christopher Chantler, Bruce Bunker, Federico Boscherini, 2024-08-19. X ray

absorption spectroscopy and X ray emission spectroscopy are complementary to crystallographic methods particularly for materials science and the study of nanostructure and systems with partial disorder and partial local order including solutions gases liquids glasses and powders This new volume of International Tables for Crystallography has nine parts and over 150 chapters contributed by a wide range of international experts Part 1 provides a brief overview and introduction to the background of X ray absorption spectroscopy XAS and experimental facilities Part 2 discusses the quantum theory of XAS and related approaches Part 3 describes both standard and advanced experimental methods used in XAS X ray emission spectroscopy XES and related techniques Part 4 covers both standard and more advanced pre processing of data Part 5 gives an extensive overview of the analysis of experimental data Part 6 provides details of the major software packages for data collection reduction and analysis Part 7 outlines the importance in science reporting and hypothesis testing of the exchange of input and processed output data and data deposition It also presents excerpts of tables of data and supplementary material for XAS pre edge studies X ray absorption near edge spectroscopy XANES and X ray absorption fine structure XAFS studies These tables are also available in full as online supporting information Part 8 explores a wide range of applications of XAS in fields including materials science physics chemistry biology earth sciences catalysis and cultural heritage Part 9 presents definitions of the terms and quantities used as developed by the International Union of Crystallography's Commission on XAFS The volume has been written for the worldwide XAS community of thousands of practitioners beamline scientists experts and academics and for the novice user who wishes to know what XAS and XES can do for them and how they may use these techniques for their particular purposes The volume is therefore intended to be a self contained authoritative reference work that can also be used for training learning or teaching providing practical guidance for readers of all levels of experience More information on the volumes in the series International Tables for Crystallography can be found at <https://it.iucr.org>

**Government Reports Announcements & Index**, 1996-05      **Optical Engineering**, 1995 Publishes papers reporting on research and development in optical science and engineering and the practical applications of known optical science engineering and technology      *Optics Letters*, 1977      *Metals Abstracts*, 1979      *Application of Spherical Gratings in Synchrotron Radiation Spectroscopy*, 1986 The recent development in grazing incidence grating monochromator design is discussed and the performance limiting for such instruments are examined Especially the aberrations of toroidal and spherical gratings are investigated using the optical path function concept It is shown that large radius spherical gratings which can be produced with better slope tolerances than aspherics also yield smaller overall line curvature than toroids Therefore a new simple spherical grating monochromator design is proposed and its performance is analyzed

**Design Optimization of "Straight Groove" Toroidal Grating Monochromators for Synchrotron Radiation**, 1979 The availability of storage rings giving intense broadband radiation in the spectral range 10 500 has prompted renewed interest in the improvement of grazing incidence monochromators Of particular importance is the moderate resolution case

designed for highest throughput This report outlines the reasons behind the various choices leading to a toroidal grating monochromator design and indicates a method for finding optimum values for some of the parameters in the straight grooved case This case is chosen because at present all aberration corrected gratings contain photoresist on their surfaces and are therefore unsuited for use with high intensity synchrotron radiation Fixed entrance and exit slit to grating distances and wavelength scanning by simple rotation of the grating about its pole are assumed *Plane Grating Monochromators for Synchrotron Radiation*, 1979 The general background and theoretical basis of plane grating monochromators PGM s is reviewed and the particular case of grazing incidence PGM s suitable for use with synchrotron radiation is considered in detail The theory of reflection filtering is described and the problem of the finite source distance is shown to be of special importance with high brightness storage rings The design philosophy of previous instruments is discussed and a new scheme proposed aimed at dealing with the problem of the finite source distance This scheme involving a parabolic collimating mirror fabricated by diamond turning is considered in the context of Wolter type telescopes and microscopes Some practical details concerning an instrument presently under construction using the new design are presented *Varied Line-space Gratings*, 1985 A classically ruled diffraction grating consists of grooves which are equidistant straight and parallel Conversely the so called holographic grating formed by the interfering waves of coherent visible light although severely constrained by the recording wavelength and recording geometry has grooves which are typically neither equidistant straight nor parallel In contrast a varied line space VLS grating in common nomenclature is a design in which the groove positions are relatively unconstrained yet possess sufficient symmetry to permit mechanical ruling Such seemingly exotic gratings are no longer only a theoretical curiosity but have been ruled and used in a wide variety of applications These include 1 aberration corrected normal incidence concave gratings for Seya Namioka monochromators and optical de multiplexers 2 flat field grazing incidence concave gratings for plasma diagnostics 3 aberration corrected grazing incidence plane gratings for space borne spectrometers 4 focusing grazing incidence plane grating for synchrotron radiation monochromators and 5 wavefront generators for visible interferometry of optical surfaces particularly aspheres Future prospects of VLS gratings as dispersing elements wavefront correctors and beamsplitters appear promising The author discusses the history of VLS gratings their present applications and their potential in the future 61 refs 24 figs *The LBL 55-meter Spherical Grating Monochromator at SSRL (Stanford Synchrotron Radiation Laboratory)*, 1989 The Lawrence Berkeley Laboratory 55 m spherical grating monochromator SGM beamline is located as a branch line of the 54 pole wiggler undulator at the Stanford Synchrotron Radiation Laboratory SSRL It was designed and constructed by LBL s Center for X Ray Optics and the engineering staff of LBL s Advanced Light Source with the cooperation and assistance of the research group of David Shirley at LBL and the staff of SSRL The main goals of the project were to test the SGM concept and to develop a capability for designing and building a water cooled mirror and grating capability in anticipation of the ALS A water cooled plane mirror

deflects the beam horizontally taking in general a small fraction of the flux from the 54 pole insertion device This mirror is a brazed assembly of Glidcop a proprietary alumina dispersion strengthened copper alloy and OFHC copper Its surface was finished in polished electroless nickel then overcoated with gold as all optics in the beamline are overcoated Next in the line is a fused silica toroid which focuses the SPEAR source vertically onto the entrance slit of the monochromator and horizontally onto the nominal position of the exit slit in the manner of Rense and Violet The magnification factors are 0.3x vertically and 0.7x horizontally The monochromator is a Rowland circle design both slits move on large granite based slides that maintain flatness of travel to plus minus 2  $\mu\text{m}$  in peak to peak variation from straightness

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