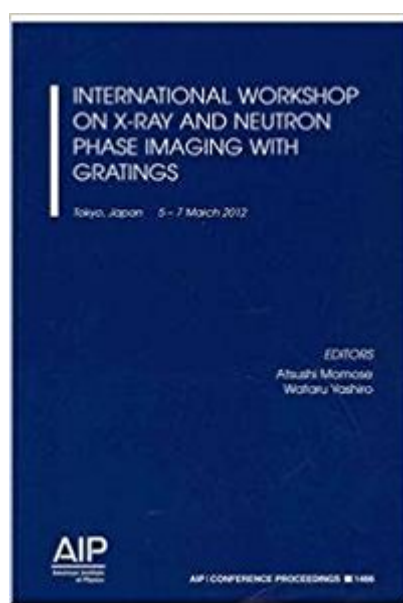


The book was found

# International Workshop On X-Ray And Neutron Phase Imaging With Gratings (AIP Conference Proceedings)



## Synopsis

Since the discovery of X-rays, transmission imaging has been used extensively for a variety of fields, taking advantage of the high penetrating power of X-rays. However, because it uses X-ray absorption to generate image contrast, X-ray transmission imaging has a drawback that its sensitivity is poor to weakly absorbing objects consisting mainly of light elements, such as polymers and biological soft tissues. Since the 1990s, X-ray phase imaging, which relies on the measurement of the X-ray phase shift (or X-ray refraction) caused by a sample, has attracted attention, because weakly absorbing objects could be imaged. Particularly in this decade, X-ray phase imaging based on grating optics has been studied actively thanks to its practical advantage that laboratory X-ray sources are usable, while other earlier techniques of X-ray phase imaging were developed and performed mainly in synchrotron radiation facilities. Therefore, grating-based X-ray phase imaging has attracted special attentions from the medical and industrial fields. Moreover, a similar technique is expanding to neutron phase imaging field for various other materials including metal. This proceedings volume contains 47 papers presented at the first workshop held in Tokyo to provide an opportunity for discussion and to promote new collaborations in this rapidly growing field.

## Book Information

Series: AIP Conference Proceedings (Book 1466)

Paperback: 312 pages

Publisher: American Institute of Physics; 2012 edition (September 19, 2012)

Language: English

ISBN-10: 0735410720

ISBN-13: 978-0735410725

Product Dimensions: 6.3 x 0.7 x 9.2 inches

Shipping Weight: 1 pounds (View shipping rates and policies)

Average Customer Review: Be the first to review this item

Best Sellers Rank: #7,532,863 in Books (See Top 100 in Books) #47 in Books > Science & Math > Biological Sciences > Bioelectricity #1664 in Books > Textbooks > Medicine & Health Sciences > Allied Health Services > Radiological & Ultrasound Technology #1912 in Books > Science & Math > Biological Sciences > Biophysics

[Download to continue reading...](#)

International Workshop on X-Ray and Neutron Phase Imaging with Gratings (AIP Conference Proceedings) Information Processing in Medical Imaging: Proceedings of the 8th conference,

Brussels, 29 August - 2 September 1983 (Proceedings of the Eighth Conference, Brussels, 29 August-2) LES and DNS of Ignition Process and Complex Structure Flames with Local Extinction (AIP Conference Proceedings / Mathematical and Statistical Physics) Biomagnetism and Magnetic Biosystems Based on Molecular Recognition Processes (AIP Conference Proceedings) Polymers and Neutron Scattering (Oxford Series on Neutron Scattering in Condensed Matter) Biomagnetism: Clinical Aspects : Proceedings of the 8th International Conference on Biomagnetism, Munster, 19-24 August, 1991 (International Congress Series) Handbook of Optics, Third Edition Volume V: Atmospheric Optics, Modulators, Fiber Optics, X-Ray and Neutron Optics Methods of X-ray and Neutron Scattering in Polymer Science (Topics in Polymer Science) Electric Motors in the Home Workshop: A Practical Guide to Methods of Utilizing Readily Available Electric Motors in Typical Small Workshop Applications (Workshop Practice Series) Distributed Platforms: Proceedings of the IFIP/IEEE International Conference on Distributed Platforms: Client/Server and Beyond: DCE, CORBA, ODP and ... in Information and Communication Technology) Hardware and Software: Verification and Testing: 11th International Haifa Verification Conference, HVC 2015, Haifa, Israel, November 17-19, 2015, Proceedings (Lecture Notes in Computer Science) Cryptography and Coding: 6th IMA International Conference, Cirencester, UK, December 17-19, 1997, Proceedings (Lecture Notes in Computer Science) Cold Regions Engineering: Proceedings of the Sixth International Specialty Conference Hosted by the Us Army Cold Regions Research and Engineering LA Computer Analysis of Images and Patterns: 7th International Conference, CAIP '97, Kiel, Germany, September 10-12, 1997. Proceedings. (Lecture Notes in Computer Science) Proceedings of the Third International Conference on Document Analysis and Recognition: August 14-16, 1995, Montreal, Canada Proceedings Fifth IEEE International Conference on Automatic Face and Gesture Recognition: Washington, D.C., 20-21 May 2002 Computer Analysis of Images and Patterns: 8th International Conference, CAIP'99 Ljubljana, Slovenia, September 1-3, 1999 Proceedings (Lecture Notes in Computer Science) PeriAnesthesia Nursing Core Curriculum: Preprocedure, Phase I and Phase II PACU Nursing, 3e PeriAnesthesia Nursing Core Curriculum: Preprocedure, Phase I and Phase II PACU Nursing The Semantic Web - ISWC 2008: 7th International Semantic Web Conference, ISWC 2008, Karlsruhe, Germany, October 26-30, 2008, Proceedings (Lecture Notes in Computer Science)