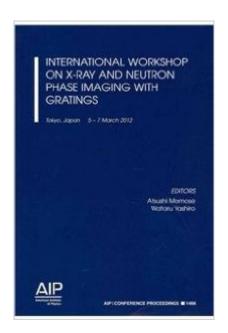
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International Workshop On X-Ray And Neutron Phase Imaging With Gratings (AIP Conference Proceedings)





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. Â 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.

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