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Electron Holography (Springer Series in Optical Sciences) 2nd, enlarged ed. 1999 Edition by Akira Tonomura (Author)

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Electron holography, a two-step imaging method taking advantage of light and electrons, has been employed for fundamental experiments in physics as well as for high-precision measurements in microscopy. It continues to be advanced in its applications though the speed of the development is not high

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Full use is made of the extremely short wave length of electrons, enabling electron holography to have a great impact on fields ranging from basic science to industrial applications. This book will provide an overview of the present state of electron holography for scientists and engineers entering the field.

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Part of the Springer Series in Optical Sciences book series (SSOS, volume 70) Abstract This chapter introduces typical examples for the electron holography techniques that have hitherto been developed.

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electron holography are first briefly described.

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Electron holography is holography with electron waves. Dennis Gabor invented holography in 1948 when he tried to improve resolution in electron microscope. The first attempts to perform holography with electron waves were made by Haine and Mulvey in 1952; they recorded holograms of zinc oxide crystals with 60 keV electrons, demonstrating reconstructions with approximately 1 nm resolution.

Electron holography - Wikipedia

Springer Science & Business Media, Jul 2, 1999- Juvenile Nonfiction- 162 pages. 0Reviews. Electron holography, a two-step imaging method taking advantage of light and electrons, has been employed...

ELECTRON HOLOGRAPHY.: 2nd edition - Akira Tonomura

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Electron holography — Arizona State University

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Electron Holography, 2nd edition /A. Tonomura, Springer, Springer Series in Optical Sciences (1999)

Akira Tonomura - Wikipedia

This is an introduction to electron holography, a newly developed technique for observing and measuring microscopic structures of matter and fields using the wave nature of electrons. It describes principles, experimental details, and observation examples for vortices in superconductors, the...

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This second edition is an extended version of the first edition of Geometrical Charged-Particle Optics. The updated reference

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