



# **Soft X-Ray Optics (SPIE Press Monograph Vol. PM15) (Spie Press Vol Pm15)**

*Eberhard A. Spiller*

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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.

*Contents:*

- Optical Constants
- Reflection from a Single Boundary
- Imaging Systems for X Rays
- Information Capacity of a Radiation Field
- Zone Plates
- Interference in Thin Films: Theory
- Multilayer Fabrication
- Test of Multilayer Structures
- Windows and Filters
- Applications of Soft X-Ray Optics

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