



**X-Ray Microscopy: Proceedings of the  
International Symposium, Göttingen, Fed. Rep. of  
Germany, September 14-16, 1983 (Springer Series  
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X-ray microscopy fills a gap between optical and electron microscopy. Using soft x-rays, a resolution higher than with visible light can be obtained. In comparison to electron microscopy, thick, wet, unstained specimens can be examined. This is especially advantageous for biological applications. The intense synchrotron radiation of electron storage rings and the development of optical elements for soft x-rays render x-ray microscopy feasible for basic research. Wider applications will be possible in the future with the development of laboratory x-ray sources and microscopes. In 1979 a conference on x-ray microscopy was organized by the New York Academy of Sciences and in 1981 a symposium on high resolution soft x-ray optics was held at Brookhaven. The present volume contains the contributions to the symposium "X-Ray Microscopy," organized by the Akademie der Wissenschaften in Göttingen in September 1983. In their capacity as conference chairmen, the editors would like to thank the Akademie der Wissenschaften, especially Prof. H.G. Wagner, Secretary of the Academy, and Mr. J. Pfahlert for organizing the symposium. We are indebted to the Stiftung Volkswagenwerk for financial support. The symposium was held at the Max-Planck-Institut für Stromungsforschung. We are grateful for their hospitality and assistance during the symposium. Thanks are due to all authors and to the Springer Verlag for their combined efforts. We thank Dipl.-Phys. P. Guttman, Dr. B. Niemann and Mrs. A. Marienhagen for their assistance during the final preparation of the manuscripts.

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