



X-ray Microscopy: Instrumentation and Biological Applications

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In 1979, a conference on x-ray microscopy was organized by the New York Academy of Sciences, and in 1983, the Second International Symposium on X-ray Imaging was organized by the Akademie der Wissenschaften in Göttingen, Federal Republic of Germany. This volume contains the contributions to the symposium "X-ray Microscopy '86", held in Taipei, Taiwan, the Republic of China in August 1986. This is the first volume which intends to provide up-to-date information on x-ray imaging to biologists, therefore, emphasis was given to specimen preparation techniques and image interpretation. Specimen preparation represents a major part of every microscopy work, therefore, it should be strongly emphasized in this emerging field of x-ray microscopy. Theoretically, x-ray microscopy offers the potential for the study of unfixed, hydrated biological materials. Since very few biological systems can be directly observed without specimen preparation, we would like to emphasize that new information on biological specimens can only be obtained if the specimen is properly prepared. In the past decade, many of the published x-ray images were obtained from poorly prepared biological specimens, mainly air-dried materials. Therefore, one of the goals of this conference is to bring the importance of specimen preparation to the attention of the x-ray microscopy community. X-ray microscopy can be subdivided into several major areas. They are the classic x-ray projection microscope, x-ray contact imaging (microradiography) and the more recent x-ray scanning microscope, x-ray photoelectron microscope and x-ray imaging microscope.

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