


[DOWNLOAD](#)


Methods of Preparation for Electron Microscopy

By Robinson, David G. / Ehlers, Ulrich

Book Condition: New. Publisher/Verlag: Springer, Berlin | An Introduction for the Biomedical Sciences. Forew. by K. Mühlethaler | In 1939, when the electron optics laboratory of Siemens & Halske Inc. began to manufacture the first electron microscopes, the biological and medical professions had an unexpected instrument at their disposal which exceeded the resolution of the light microscope by more than a hundredfold. The immediate and broad application of this new tool was complicated by the overwhelming problems inherent in specimen preparation for the investigation of cellular structures. The microtechniques applied in light microscopy were no longer applicable, since even the thinnest paraffin layers could not be penetrated by electrons. Many competent biological and medical research workers expressed their anxiety that objects in high vacuum would be modified due to complete dehydration and the absorbed electron energy would eventually cause degradation to rudimentary carbon backbones. It also seemed questionable as to whether it would be possible to prepare thin sections of approximately 0.5 μm from heterogeneous biological specimens. Thus one was suddenly in possession of a completely unique instrument which, when compared with the light microscope, allowed a 10-100-fold higher resolution, yet a...



READ ONLINE
[3.82 MB]

Reviews

Great electronic book and useful one. It can be written in straightforward terms rather than difficult to understand. Once you begin to read the book, it is extremely difficult to leave it before concluding.

-- **Kian Harber**

Extensive information for ebook lovers. It typically is not going to expense too much. I discovered this book from my i and dad recommended this pdf to learn.

-- **Prof. Gerardo Grimes III**