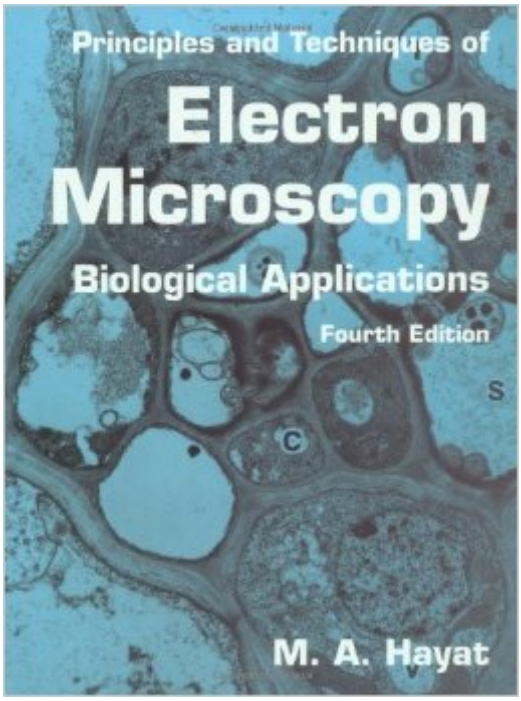
Principles And Techniques Of Electron Microscopy: Biological Applications



Synopsis

Principles and Techniques of Electron Microscopy is the standard work for biological electron microscopists wishing to learn how to prepare their specimens for electron microscopic investigation. This fully revised and expanded fourth edition includes three new chapters covering such topics as plant tissues, immunocytochemistry, and applications of microwave irradiation to microscopy. It provides practical instructions on how to process biological specimens, as well as a detailed discussion on the principles underlying the various processes. Dr. Hayat presents methods in a self-explanatory form and includes alternative procedures and points of disagreement to help the reader interpret data accurately. What sets this book apart from its competition is that it not only describes techniques but also explains their fundamental principles; that is, those chemical reactions underlying the use of various reagents for preserving and staining cellular components.

Book Information

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Customer Reviews

It is an excellent handbook for electron microscopy. In the section of labeling with protein A / colloidal gold, the author fails to acknowledge the original contribution on the subject: Romano EL and Romano MS: Staphylococcal protein A bound to colloidal gold: a useful reagent to label antigen-antibody sites in electron microscopy. Immunochemistry 14:711-715,1977. I think that the omission is unfair because later works by others are cited in the same section of the book

D. B. Williams's C. Barry Carter's Transmission Electron Microscopy 2nd(Second) edition (Transmission Electron Microscopy: A Textbook for Materials Science [Hardcover])(2009) Principles and Techniques of Electron Microscopy: Biological Applications Typical Electron Microscope Investigations (Monographs in Practical Electron Microscopy in Materials Sci) Electron Diffraction in the Transmission Electron Microscope (Microscopy Handbooks) Sample Preparation Handbook for Transmission Electron Microscopy: Techniques Scanning Electron Microscopy and X-Ray Microanalysis: A Text for Biologists, Materials Scientists, and Geologists Scanning Electron Microscopy and X-Ray Microanalysis Light and Electron Microscopy Diagnostic Electron Microscopy: A Practical Guide to Interpretation and Technique Scanning Transmission Electron Microscopy: Imaging and Analysis Handbook of Transmission Electron Microscopy Practical Electron Microscopy: A Beginner's Illustrated Guide Electron Microscopy, 2nd Edition Transmission Electron Microscopy: A Textbook for Materials Science (4 Vol set) Scanning Transmission Electron Microscopy of Nanomaterials: Basics of Imaging Analysis Introduction to Electron Microscopy Transmission Electron Microscopy: Physics of Image Formation (Springer Series in Optical Sciences) Physical Chemistry: Principles and Applications in Biological Sciences (4th Edition) Principles of Nuclear Magnetic Resonance Microscopy Laboratory Mathematics: Medical and Biological Applications