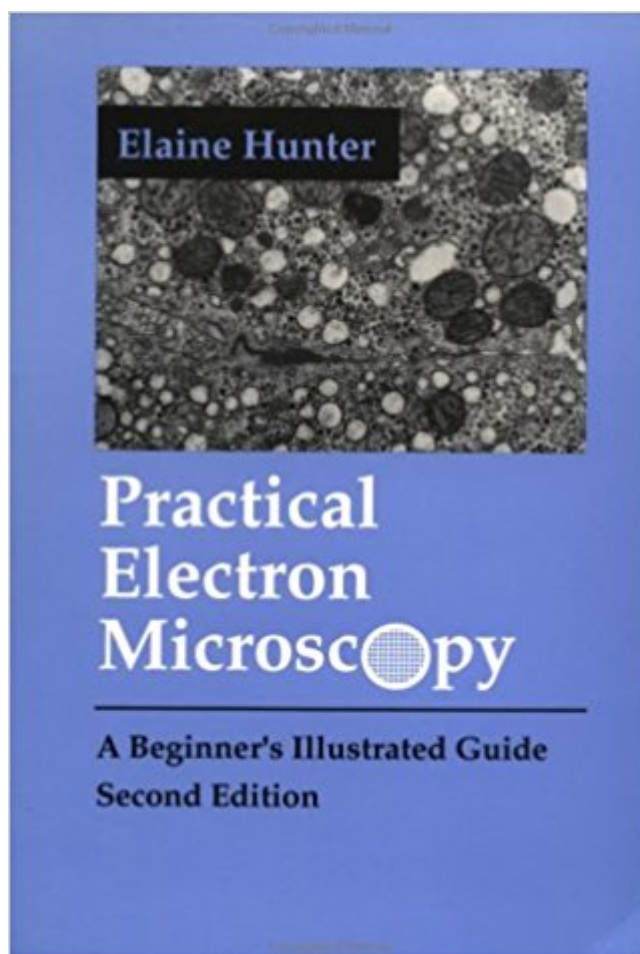


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# Practical Electron Microscopy: A Beginner's Illustrated Guide



## Synopsis

This is an extensively illustrated laboratory manual of transmission electron microscopy techniques for the laboratory technician, graduate student, or researcher. Chapters begin with a general discussion, move on to the chemicals and equipment required for the method being described and conclude with a step-by-step presentation of the method and instructions for the preparation of solutions. Notes at the end of each chapter warn of possible pitfalls and outline "tricks of the trade". The methods and techniques outlined have been tested for over ten years in clinical and research laboratory situations, and are entirely reliable. Practical Electron Microscopy covers fixation, dehydration and embedding, semithin and thin sectioning, the electron microscope, and photography. For this new edition, the chapters on photography and the electron microscope have been completely rewritten and two new chapters have been added, one on immunoelectron microscopy using colloidal gold, and one dealing with such special techniques as retrieving specimens from paraffin and handling nasal brushings and blood samples.

## Book Information

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## Customer Reviews

"...describes clearly and exhaustively the various steps in the preparation of tissue for electron microscopy...It can certainly be recommended to beginners." Elizabeth H. Hammond, *Archives of Pathology and Laboratory Medicine*"...It is a constant problem in larger textbooks and original papers that details about procedures are missing. Hunter has done a great job in this aspect. She has very carefully provided us with detailed information about her daily routines and some of the

special techniques applied in her laboratory." Jahn M. Neslund, *Modern Pathology*"...While this is not a field for the beginner, it is an area that is gaining popularity, and most laboratories in the biological field require personnel with a knowledge of the subject." *Cambridge Scientific Abstracts*"I am happy to say that this 'practical' guide lives up to its name, as well as my expectations. Overall, the book is well written and presented. The photographs are of excellent quality and helpful in illustrating the text....Clear, lucid, and well illustrated explanations and examples typify this excellent guide throughout all of the chapters. There are ample historical references to older techniques and people to help the user delve more deeply later. I especially appreciated the constant attempt to provide clear emphasis on technique and proper safety....[I]t should prove to be a useful primer for the beginner wanting to know more detail on the subject, as well as providing references for future study if need be....I recommend this book to anyone starting out in the field of biologic electron microscopy. This book would be an excellent volume for a required text at the college or university level." John D. Shane, *Microscope*

For this new edition, the chapters on photography and the electron microscope have been completely rewritten and two new chapters have been added--on immuno electron microscopy using colloidal gold and on useful specialized techniques.

It is a nice book. I am a photographer, and wanted to get into microphotography, so bought this to get ideas on how to do the craft better. It helps a lot in that I could approach my slide preparation better and have cleaner results. I probably won't be in the WHO tomorrow doing their slides, but I am able to get some great images. If you do this for photography you will probably need stacking software as depth is very limited with microscopes. Good for those keen on approaching microscopy. Well satisfied.

This book provides the basic understanding that anyone venturing into the EM world will find extremely useful. I highly recommend this book to anyone who wants to get a reference on EM fixation, embedding and staining. Very easy read and illustrations are helpful.

I am a beginner's in practicing the electron microscopy. This book provides a good introduction and important checklists during the practice of electron microscopy. Most important of all, it is not heavy.

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