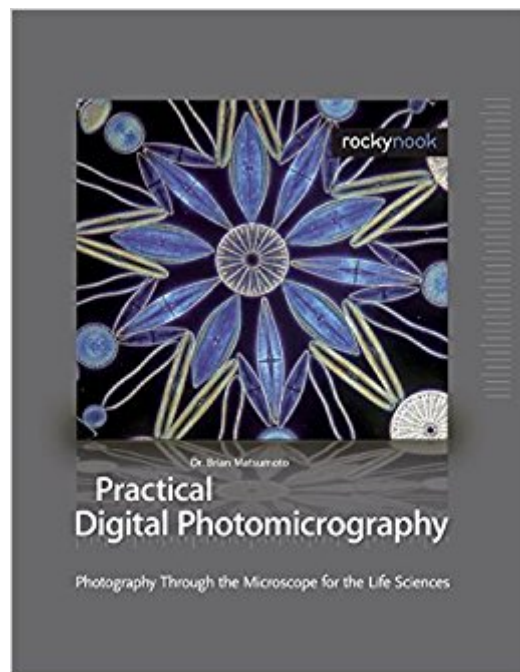




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Practical Digital Photomicrography: Photography Through The Microscope For The Life Sciences



Synopsis

Practical Digital Photomicrography is an introduction to digital photography through the microscope in which readers will learn about the techniques and equipment needed to obtain high-quality images of biological subjects. Author Dr. Brian Matsumoto received his Ph.D. in Anatomy and Cell Biology from the University of California at Los Angeles in 1981. He served as the Director of the Integrated Microscopy Facility in the Department of Molecular, Cellular, and Developmental Biology at the University of California, Santa Barbara from 1992 through 2009, where he taught a graduate level course in digital microscopy. Leveraging his decades of experience, Brian demystifies photomicrography basics such as microscope and camera concepts, illumination techniques, specimen preparation, photographic techniques, advanced optical techniques, and image post-processing. Abundant illustrations will guide the reader through these topics. Professionals in the life sciences and photography, educators and students, as well as photography enthusiasts will find this book an invaluable guide to learning the skills needed to obtain professional quality images through the microscope.

Book Information

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Customer Reviews

In 1981, Dr. Brian Matsumoto received his Ph.D. in Anatomy and Cell Biology from the University of California at Los Angeles. His research required the development and refinement of techniques for transmission electron microscopy and light microscopy. These tools were used to study the role of

actin and microtubules in photoreceptor membrane transport and assembly. In 1992, Dr. Matsumoto was appointed Director of the Integrated Microscopy Facility: a unit administered by the Neuroscience Research Institute and the Department of Molecular, Cellular, and Developmental biology. This facility provides instruction and support for projects that require advanced imaging. In addition, he serves as the instructor for MCDB 220: a graduate level course for digital microscopy at the University of California. Presently he is strengthening the ties between the University and Industry by working with such companies as Olympus of America, Media Cybernetics, Q-Imaging, Jackson ImmunoResearch, Prior Scientific, and Image Content Technology. Together, they have developed a digital imaging course that is open to attendees throughout the United States.

This was far more useful, beautiful and interesting than anything I was expecting. The book has an excellent introduction to microscopes: describing parts, creating the necessary vocabulary, and describing functionality, especially as it pertains to the art. Useful microscope accessories are identified for specific purposes. A variety of cameras are presented with tips for using especially DSLR models from several different manufacturers. Information on improving images using software is provided. The book concludes with excellent advice on the qualities of microscopes one should consider in order to do this type of imaging with specific mention of instruments the author has used. But, I left the best until last! Throughout the book images made by the author are incorporated -- worth it just to see these and learn how they are done! What is especially nice: This is not a terribly long book; you do not have to wade through endless details, you don't get bogged down -- instead you become inspired to get out there and make some of your own art! I hope to find another gem like this from Dr. Matsumoto very soon!

I bought this book as I am just starting out in Photomicrography. This book provided excellent guidance and advice about techniques and equipment. Dr Matsumoto has a lot of expertise in the field and I found his coverage of topics and technique to be extremely useful in my decisions to purchase equipment. The book is very clearly written. I am sure that I will be referring to it often as I just purchased a stereo microscope today and will commence working with it in coming weeks and months. While the book may seem a little pricey, it was well worth the expense to me as it helped me narrow down and focus my ideas about equipment and techniques. In the long run I saved some money on equipment as I had a better idea of what I wanted to do and what equipment was appropriate after reading the book.

Book is loaded with practical information. I was working with an Olympus BH2 and the book addressed several questions that I had.

Much more than I was expected. Who would have thought that the thickness of coverslips would make such a difference in photography. This book has made a big difference in my microphotography.

Rookie or pro...you should have this in your library.

Filled with great ideas and tips that helped me improve my work. Excellent.

I have been out of Photomicrography for nearly 20 years. This is an excellent refresher as well as a good reference.

Ok if you get it at a discounted price. The same and more up to date information can be found on the web, but it is nice to have a single volume source for basic information.

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