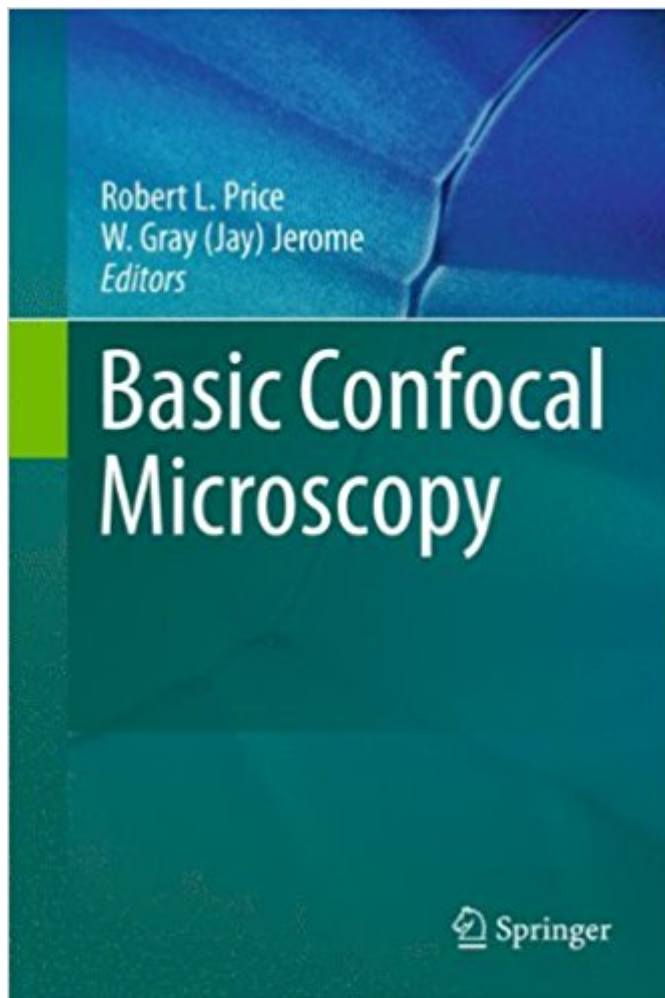




**Ebook Directory**  
the best source of ebook

The book was found

# Basic Confocal Microscopy



## Synopsis

Most researchers agree that biological confocal microscopy was jump-started by the confocal design first published by White and Amos in 1985 in the Journal of Cell Biology. As a result, this remains a relatively young field. Yet the use of the technique has grown phenomenally since those early efforts, with new users joining the ranks daily. The publication of Basic Confocal Microscopy reflects the burgeoning need to train new students, technologists, and faculty wishing to use confocal microscopy in their research. A direct outgrowth of the authors' five-day intensive course in the subject begun in 2005, this book covers the basics and includes all the information required to design, implement, and interpret the results of, biological experiments based on confocal microscopy. Concise yet comprehensive, the volume begins by covering the core issues of fluorescence, specimen preparation and labeling, before moving on to address the analog-to-digital conversion of specimen data gathered using confocal microscopy. Subsequent chapters detail the practicalities of operating confocal microscopes, providing all the information necessary to begin practicing confocal microscopy as well as optimizing the material obtained. The final block of chapters examine 3-dimensional analysis and the reconstruction of data sets, outline some of the ethical considerations in confocal imaging, and then supply a number of resources that the authors have found useful in their own work. Once readers have mastered the information this book presents, the resources found in its pages will be an excellent guide to continued learning about the more advanced forms of confocal microscopy.

## Book Information

Hardcover: 302 pages

Publisher: Springer; 2011 edition (April 22, 2011)

Language: English

ISBN-10: 0387781749

ISBN-13: 978-0387781747

Product Dimensions: 6.1 x 0.8 x 9.2 inches

Shipping Weight: 1.5 pounds (View shipping rates and policies)

Average Customer Review: Be the first to review this item

Best Sellers Rank: #2,850,714 in Books (See Top 100 in Books) #89 in Books > Science & Math > Experiments, Instruments & Measurement > Electron Microscopes & Microscopy #1127 in Books > Medical Books > Basic Sciences > Cell Biology #2129 in Books > Engineering & Transportation > Engineering > Bioengineering > Biotechnology

## Customer Reviews

From the reviews: “This is an eleven chapter effort done by a bunch of Authors coordinated by Prof. R.L. Price and W.G. Jerome that with great skills are revealing us the secrets of confocal microscopy. The chapters devoted to the conversion of analogic into digital data make the book particularly valuable. Definitely an excellent book, a must for the microscopists and anyone who is using a microscope and/or is studying biology. (Manuela Monti, European Journal of Histochemistry, Vol. 56 (1), 2012)

Most researchers agree that biological confocal microscopy was jump-started by the confocal design first published by White and Amos in 1985 in the Journal of Cell Biology. As a result, this remains a relatively young field. Yet the use of the technique has grown phenomenally since those early efforts, with new users joining the ranks daily. The publication of Basic Confocal Microscopy reflects the burgeoning need to train new students, technologists, and faculty wishing to use confocal microscopy in their research. A direct outgrowth of the authors' five-day intensive course in the subject begun in 2005, this book covers the basics and includes all the information required to design, implement, and interpret the results of, biological experiments based on confocal microscopy. Concise yet comprehensive, the volume begins by covering the core issues of fluorescence, specimen preparation and labeling, before moving on to address the analog-to-digital conversion of specimen data gathered using confocal microscopy. Subsequent chapters detail the practicalities of operating confocal microscopes, providing all the information necessary to begin practicing confocal microscopy as well as optimizing the material obtained. The final block of chapters examine 3-dimensional analysis and the reconstruction of data sets, outline some of the ethical considerations in confocal imaging, and then supply a number of resources that the authors have found useful in their own work. Once readers have mastered the information this book presents, the resources found in its pages will be an excellent guide to continued learning about the more advanced forms of confocal microscopy.

[Download to continue reading...](#)

Confocal Laser Scanning Microscopy (Royal Microscopical Society Microscopy Handbooks) Basic Confocal Microscopy Electron microscopy for beginners: Easy course for understanding and doing electron microscopy (Electron microscopy in Science) Confocal Microscopy for Biologists (Disease Management of Fruits and Vegetables) Techniques in Confocal Microscopy (Reliable Lab Solutions) Confocal Microscopy for Biologists Liquid Cell Electron Microscopy (Advances in Microscopy and

Microanalysis) Scanning Electron Microscopy, X-Ray Microanalysis, and Analytical Electron Microscopy: A Laboratory Workbook Introduction to Light Microscopy (Royal Microscopical Society Microscopy Handbooks) Basic Methods in Microscopy: Protocols and Concepts from Cells: A Laboratory Manual Scanning Electron Microscopy and X-ray Microanalysis: Third Edition Transmission Electron Microscopy: A Textbook for Materials Science Transmission Electron Microscopy: A Textbook for Materials Science (4 Vol set) Scanning Microscopy for Nanotechnology: Techniques and Applications Scanning Electron Microscopy and X-Ray Microanalysis Pharmaceutical Microscopy Electron Microprobe Analysis and Scanning Electron Microscopy in Geology Diagnostic Electron Microscopy: A Practical Guide to Interpretation and Technique Biological Low-Voltage Scanning Electron Microscopy Scanning Probe Microscopy and Spectroscopy: Theory, Techniques, and Applications

[Contact Us](#)

[DMCA](#)

[Privacy](#)

[FAQ & Help](#)