



Introduction to Biophotonics

By Paras N. Prasad

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Introduction to Biophotonics By Paras N. Prasad

Paras Prasad's text provides a basic knowledge of a broad range of topics so that individuals in all disciplines can rapidly acquire the minimal necessary background for research and development in biophotonics. Introduction to Biophotonics serves as both a textbook for education and training as well as a reference book that aids research and development of those areas integrating light, photonics, and biological systems. Each chapter contains a topic introduction, a review of key data, and description of future directions for technical innovation. Introduction to Biophotonics covers the basic principles of

- Optics
- Optical spectroscopy
- Microscopy

Each section also includes illustrated examples and review questions to test and advance the reader's knowledge. Sections on biosensors and chemosensors, important tools for combating biological and chemical terrorism, will be of particular interest to professionals in toxicology and other environmental disciplines. Introduction to Biophotonics proves a valuable reference for graduate students and researchers in engineering, chemistry, and the life sciences.

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Introduction to Biophotonics By Paras N. Prasad Bibliography

- Sales Rank: #1435901 in Books
- Published on: 2003-04-08
- Original language: English
- Number of items: 1
- Dimensions: 9.59" h x 1.51" w x 6.46" l, 2.22 pounds
- Binding: Hardcover
- 601 pages

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Editorial Review

Review

"...destined to become part of the canon of science books whose farreaching influences help make history."
(*Journal of Biomedical Optics*, May/June 2005)

"The author has provided a wonderful resource, and created a must have book for those interested in the field of biophotonics." (*Annals of Biomedical Engineering*, September 2004)

"Prasad has what it takes to assemble a survey of the fundamentals and applications in a manner that is undoubtedly of interest to not only 'those involved in health, safety, and environmental disciplines' but also to basic scientists and engineers." (*Journal of the American Chemical Society*, Sept 29, 2004)

"...an interesting and very readable book that provides an excellent introduction to the field of biophotonics. The lucid discussion is complimented by numerous and helpful figures. I recommend it with enthusiasm."
(*The Quarterly Review of Biology*, Vol. 7, March 2004)

"...provides an excellent and thorough introduction to the key areas of researchers. Even researchers who work in this field will be pleased with the thorough treatment...and gain an appreciation for how their research fits into the broader context...provides an excellent overview...that will be appreciated by undergraduates, graduate students, and researchers.... I recommend it with enthusiasm." (*The Quarterly Review of Biology*)

From the Back Cover

The first comprehensive and authoritative introductory work on biophotonics

Biophotonics involves the use of photonics, the technology of generating and harnessing light and other radiant energy, for biological purposes. In fact, four major technologies – lasers, photonics, nanotechnology, and biotechnology – are integrated into biophotonics, placing it at the intersection of physical, biological, and engineering sciences. *Introduction to Biophotonics* provides a much-needed primer on this emerging discipline.

Paras Prasad's text provides a basic knowledge of a broad range of topics so that individuals in all disciplines can rapidly acquire the minimal necessary background for research and development in biophotonics. The book serves as both a textbook for education and training as well as a reference book that aids research and development of those areas integrating light, photonics, and biological systems. Each chapter contains a topic introduction, a review of key data, and description of future directions for technical innovation. *Introduction to Biophotonics* covers the basic principles of

- Optics
- Optical spectroscopy
- Microscopy

Along with applications to:

- Biochemistry
- Biology

- Health sciences

Each section also includes illustrated examples and review questions to test and advance the reader's knowledge. Sections on biosensors and chemosensors, important tools for combating biological and chemical terrorism, will be of particular interest to professionals in toxicology and other environmental disciplines. Introduction to Biophotonics proves a valuable reference for graduate students and researchers in engineering, chemistry, and the life sciences.

About the Author

PARAS N. PRASAD, PhD, is the SUNY Distinguished Professor of Chemistry, Physics, Electrical Engineering, and Medicine, the Samuel P. Capen Chair, and the Executive Director of the Institute for Lasers, Photonics, and Biophotonics at the University of Buffalo. Professor Prasad received his BS and MS at Bihar University in India, and his PhD at the University of Pennsylvania. He completed his postdoctoral studies at the University of Michigan, and has been recognized as an Alfred P. Sloan Fellow and Guggenheim Fellow. Professor Prasad teaches biophotonics at the University of Buffalo and is also a special lecturer for biophotonics courses at the SPIE.

Users Review

From reader reviews:

Lewis Wood:

The book Introduction to Biophotonics make you feel enjoy for your spare time. You can utilize to make your capable far more increase. Book can to get your best friend when you getting pressure or having big problem together with your subject. If you can make reading through a book Introduction to Biophotonics to be your habit, you can get considerably more advantages, like add your personal capable, increase your knowledge about a number of or all subjects. You could know everything if you like wide open and read a guide Introduction to Biophotonics. Kinds of book are a lot of. It means that, science e-book or encyclopedia or some others. So , how do you think about this publication?

Susie Vadnais:

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Paul Jackson:

The book untitled Introduction to Biophotonics contain a lot of information on the item. The writer explains the girl idea with easy technique. The language is very easy to understand all the people, so do certainly not worry, you can easy to read it. The book was written by famous author. The author provides you in the new

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Pilar Porter:

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