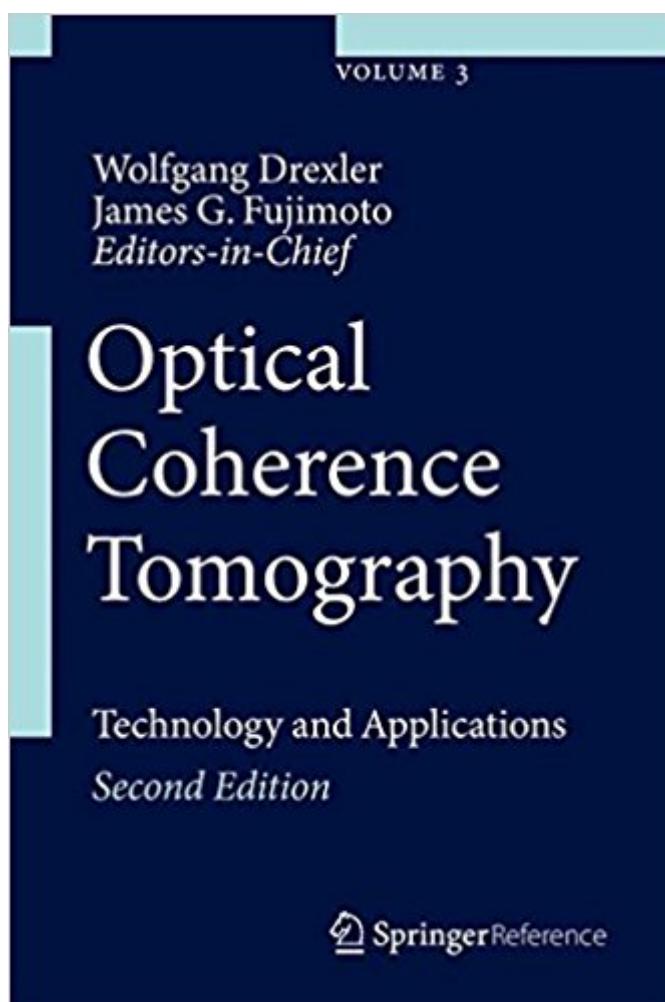


The book was found

# Optical Coherence Tomography: Technology And Applications



## Synopsis

Optical coherence tomography (OCT) is the optical analog of ultrasound imaging and is a powerful imaging technique that enables non-invasive, *in vivo*, high resolution, cross-sectional imaging in biological tissue. Between 30 to 40 Million OCT imaging procedures are performed per year in ophthalmology. The overall market is estimated at more than 0.5 Billion USD. A new generation OCT technology was developed, dramatically increasing resolution and speed, achieving *in vivo* optical biopsy, i.e. the visualization of tissue architectural morphology *in situ* and in real time. Functional extensions of OCT technology enable non-invasive, depth resolved functional assessment and imaging of tissue. The book introduces OCT technology and applications not only from an optical and technological viewpoint, but also from the biomedical and clinical perspective. This second edition is widely extended and covers significantly more topics than the first edition of this book. The chapters are written by leading international research groups, in a style comprehensible to a broad audience. It will be of interest not only to physicists, scientists and engineers, but also to biomedical and clinical researchers from different medical specialties.

## Book Information

Series: Optical Coherence Tomography

Hardcover: 2571 pages

Publisher: Springer; 2nd ed. 2015 edition (August 14, 2015)

Language: English

ISBN-10: 3319064207

ISBN-13: 978-3319064208

Product Dimensions: 6.1 x 9.3 inches

Shipping Weight: 1.7 pounds

Average Customer Review: Be the first to review this item

Best Sellers Rank: #9,426,680 in Books (See Top 100 in Books) #54 in Books > Science & Math > Biological Sciences > Bioelectricity #1327 in Books > Engineering & Transportation > Engineering > Reference > Measurements #2255 in Books > Textbooks > Medicine & Health Sciences > Medicine > Clinical > Ophthalmology

## Customer Reviews

âœOptical Coherence Tomography (OCT) is an exciting, comprehensive, perspicuous and highly recommended book that describes the theory, the instrumentation and the disparate applications of OCT. The theory and the instruments are fully described, the multitude of multicolored figures are

clear, and the references are extensive | .â • (Barry R. Masters, Optics and Photonic News, January, 2016)

Optical coherence tomography (OCT) is the optical analog of ultrasound imaging and is a powerful imaging technique that enables non-invasive, *in vivo*, high resolution, cross-sectional imaging in biological tissue.â Between 30 to 40 Million OCT imaging procedures are performed per year in ophthalmology.â The overall market is estimated at more than 0.5 Billion USD.â A new generation OCT technologyâ was developed, dramatically increasing resolution and speed, achieving *in vivo* optical biopsy, i.e. the visualization of tissue architectural morphology *in situ* and *in real time*.â Functional extensions of OCT technology enable non-invasive, depth resolved functional assessment and imaging of tissue.â The book introduces OCT technology and applications not only from an optical and technological viewpoint, but also from the biomedical and clinical perspective.â This second edition is widely extended and covers significantlyâ more topicsâ than the first edition of this book. The chapters are written leading international research groups, in a style comprehensible to a broad audience.â It will be of interest not only to physicists, scientists and engineers, but also to biomedical and clinical researchers from different medical specialties.

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

Optical Coherence Tomography: Technology and Applications (3 Volume Set) Optical Coherence Tomography: Technology and Applications Handbook of Retinal OCT: Optical Coherence Tomography, 1e Atlas of Retinal OCT: Optical Coherence Tomography, 1e Optical Coherence Tomography Angiography of the Eye Optical Thin Films: User's Handbook (Macmillan Series in Optical and Electro-Optical Engineering) Handbook of Organic Materials for Optical and (Opto)Electronic Devices: Properties and Applications (Woodhead Publishing Series in Electronic and Optical Materials) Handbook of Optical and Laser Scanning, Second Edition (Optical Science and Engineering) Electro-Optical Displays (Optical Science and Engineering) optical communication and splicing: optical networks Cone Beam Computed Tomography: Oral and Maxillofacial Diagnosis and Applications Resolution Enhancement Techniques in Optical Lithography (SPIE Tutorial Texts in Optical Engineering Vol. TT47) Optical Design for Visual Systems (SPIE Tutorial Texts in Optical Engineering Vol. TT45) Computed Tomography: Physical Principles, Clinical Applications, and Quality Control, 4e Computed Tomography: Physical Principles, Clinical Applications, and Quality Control, 3e (CONTEMPORARY IMAGING TECHNIQUES) 3rd (third) Edition by Seeram RT(R) BSc MSc FCAMRT, Euclid [2008] The Coherence of Theism: Second Edition (Clarendon Library of Logic and Philosophy) Coherence, Counterpoint, Instrumentation, Instruction in Form (Zusammenhang,

Kontrapunkt, Instrumentation, Formenlehre) Blockchain: Step By Step Guide To Understanding The Blockchain Revolution And The Technology Behind It (Information Technology, Blockchain For Beginners, Bitcoin, Blockchain Technology) Fintech: Simple and Easy Guide to Financial Technology(Fin Tech, Fintech Bitcoin, financial technology fintech, Fintech Innovation, Fintech Gold, ... technology, equity crowdfunding) (Volume 1) FINTECH: Simple and Easy Guide to Financial Technology(Fin Tech, Fintech Bitcoin, financial technology fintech, Fintech Innovation, Fintech Gold, Financial services technology, equity crowdfunding)

[Contact Us](#)

[DMCA](#)

[Privacy](#)

[FAQ & Help](#)