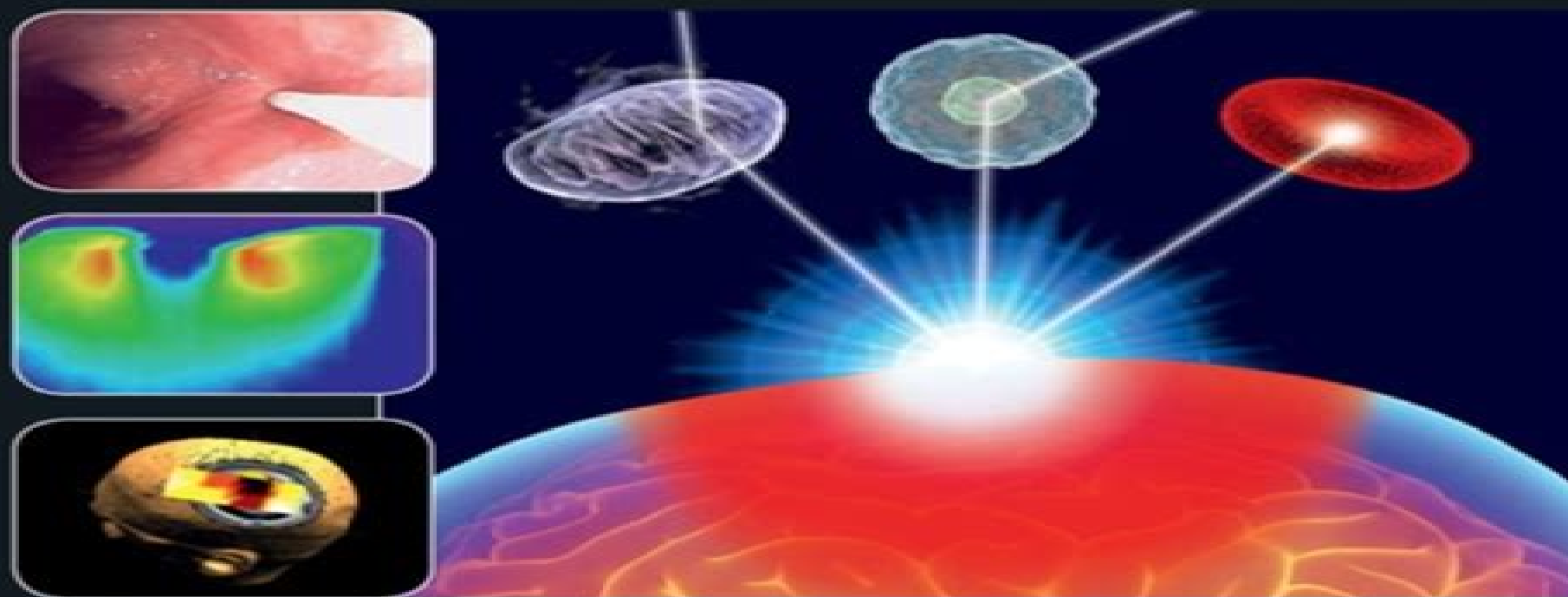


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Theory, methods, and applications



Irving J. Bigio and Sergio Fantini

And Quantitative Biomedical Optics Applications Engineering

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Quantitative Biomedical Optics Irving J. Bigio, Sergio Fantini, 2016-01-07 Based on physical science principles Quantitative Biomedical Optics covers theory instrumentation methods and applications with practical exercises and problem sets

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Biomedical Photonics Handbook Tuan Vo-Dinh, 2014-07-29 Shaped by Quantum Theory Technology and the Genomics Revolution The integration of photonics electronics biomaterials and nanotechnology holds great promise for the future of medicine This topic has recently experienced an explosive growth due to the noninvasive or minimally invasive nature and the cost effectiveness of photonic modalities in *New Horizons in Time-Domain Diffuse*

Optical Spectroscopy and Imaging Yoko Hoshi, 2020-06-23 J bsis was the first to describe the in vivo application of near infrared spectroscopy NIRS also called diffuse optical spectroscopy DOS NIRS was originally designed for the clinical monitoring of tissue oxygenation and today it has also become a useful tool for neuroimaging studies functional near infrared spectroscopy fNIRS However difficulties in the selective and quantitative measurements of tissue hemoglobin Hb which have been central in the NIRS field for over 40 years remain to be solved To overcome these problems time domain TD and frequency domain FD measurements have been tried Presently a wide range of NIRS instruments are available including commonly available commercial instruments for continuous wave CW measurements based on the modified Beer Lambert law steady state domain measurements Among these measurements the TD measurement is the most promising approach although compared with CW and FD measurements TD measurements are less common due to the need for large and expensive instruments with poor temporal resolution and limited dynamic range However thanks to technological developments TD measurements are increasingly being used in research and also in various clinical settings This Special Issue highlights issues at the cutting edge of TD DOS and diffuse optical tomography DOT It covers all aspects related to TD measurements including advances in hardware methodology the theory of light propagation and clinical applications

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