



# **Tissue Optics: Light Scattering Methods and Instruments for Medical Diagnosis, Second Edition (SPIE Press Monograph Vol. PM166)**

*Valery Tuchin*

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## **Tissue Optics: Light Scattering Methods and Instruments for Medical Diagnosis, Second Edition (SPIE Press Monograph Vol. PM166) Valery Tuchin**

Introduces key recent developments in light-scattering techniques for quantitative studies of tissues and optical cell ensembles. Discusses results of theoretical and experimental investigations into photon transport in tissues and describes methods for solving direct and inverse scattering problems involving different types of tissues and fluids (opaque vs. transparent). Covers optical methods and instruments showing promise for biomedical applications. Intended for professionals and students.

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- Nomenclature
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- Optical Properties of Tissues with Strong (Multiple) Scattering
- Methods and Algorithms for the Measurement of the Optical Parameters of Tissues
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- Controlling of Optical Properties of Tissues
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- Polarization-Sensitive Techniques
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