



# Handbook of Ultra-Short Pulse Lasers for Biomedical and Medical Applications

*Joseph Neev*

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# Handbook of Ultra-Short Pulse Lasers for Biomedical and Medical Applications

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**Handbook of Ultra-Short Pulse Lasers for Biomedical and Medical Applications** Joseph Neev

**In-depth coverage of the use of USPLs in modern, minimally invasive medical equipment**

*Handbook of Ultra-Short Pulse Lasers for Biomedical and Medical Applications* is written for biophotonics scientists and engineers who are collaborating with medical professions in developing the medical tools which utilizes ultra-short pulse lasers. The book illustrates fundamental physics of USPLs and how they interact with human tissues through ample examples of practical applications. Medical professionals who are interested in the latest updates of laser surgery and diagnosis through laser imaging will also benefit from this book.

***Handbook of Ultra-Short Pulse Lasers for Biomedical and Medical Applications* features:**

- Comprehensive coverage of ultra-short pulse lasers in biomedical, medical, imagery, and diagnostics applications
- Internationally renowned contributors in biomedical engineering
- Diagnostic techniques by deep tissue imagery
- Practical application examples
- Advanced imagery and diagnostic techniques

**Comprehensive, authoritative coverage:**

Physics of USPL; USPL Delivery ; USPL Delivery II; USPL Pulse Analysis; Biomedical Applications; Interaction of USPL with Cell and Organelles; Surgery with Femto Second Pulses on Cell and Organelles; Ultrashort Laser Light to Visualize and Manipulate the Structure and Dynamics of Neurovascular Tissue; Surgical and Medical Applications; Applications of USPL Pulse Lasers to Skin and Dermatology; Ophthalmic Applications of Femtosecond Lasers; Surgical Applications of Femtosecond Lasers Surgery; Dental Applications of Femtosecond Lasers; Applications of USP Lasers to Spinal Cord Surgery and Neurology; Imaging and Diagnostics; USPL and Optical Coherent Tomography (OCT); Terahertz Imaging; Use of USPL for 3rd Harmonic and Nonlinear Microscopy; Confocal 3 Photon / Multiphoton Imaging



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