



Laser Applications in Medicine and Biology: Volume 5

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The use of lasers has entered almost every facet of medicine and biology. Therefore, it is to be expected that the reviews contained in this volume will reflect this diversity. As clinical acceptance has grown with various diagnostic and therapeutic applications, so has the need for a more thorough understanding of the theoretical background for each. This is especially true where a correlation is to be made between the theoretical background and the experimental data. It is only in this way that we can attain the optimal form of any therapy. The basic coupling of energy into biological tissue and its conversion into heat is characterized by many parameters. One of the most important is pulse duration. The review by Bimgruber in Chapter 6 shows how our knowledge of this parameter has been extended. The need for a more basic understanding of the interaction of electromagnetic energy with various kinds of materials has led to investigations on the nature of plasmas their stability and instability, and how they exist. Docchio reviews the factors that cause them to occur at a specific locale and then to move away from that site. The availability of many types of optical fibers has extended our ability to deliver laser energy from various types of lasers into almost any selected location. This is particularly useful in medicine, where less invasive approaches to surgery and diagnosis are always helpful. However, as Rol and his colleagues explain, the power-handling capabilities of optical fibers limit many applications, particularly for short-duration, high-peak-power laser pulses.

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