

# Laser Tissue Interactions Fundamentals And Applications By Niemz Markolf H Author Paperback 2007

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#### Laser-Tissue Interactions 2

laser-tissue interactions > Thermal lasers are used for tissue coagulation and vaporisation > For tissue ablation, high absorption of the laser light by the tissue is necessary, as is high power density of the laser pulse (>100 kW/cm<sup>2</sup>) > Keep in mind that the shorter the laser pulse or the laser irradiation on the same spot, the

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### **Laser Tissue Interaction Applications**

Laser-Tissue Interactions - Fundamentals and Applications "Laser-Tissue Interactions" provides a thorough description of the fundamentals and applications in this field Basic concepts such as the optical and thermal properties of tissue, the various types of tissue ablation, and optical breakdown and its related effects are treated in

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#### **Medical lasers and laser-tissue interactions**

Various effects of laser-tissue interactions where  $r$  is the radius of the laser beam,  $\mu_0$  is the vacuum permeability and  $c$  is the velocity of light This equation may also be expressed as a function of the power density,  $P$ :  $P \sim r^2 \mu_0 c^2$  From this equation, one calculates that " D

#### **Lasers in Surgery**

Laser/Tissue Interactions Each type of laser exhibits differing biological effects • Specific for wavelengths • Tissue effects depend on absorption in target tissue and how the energy is delivered Surgical effects of primary laser systems rely on heat transfer from the beam into tissue The target determines the temperatures reached, not the

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