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Laser Tissue Interactions. Laser tissue interactions can be classified into four types on contact: reflection, absorption, scattering, and transmission. Reflection wastes laser energy and makes it unsuitable for medical applications. Absorption at the surface is influenced by various chromophores as we will in detail later in this article.

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Laser tissue interactions : fundamentals and applications By: Niemz, Markolf H. Publisher: Berlin Springer 2019 Edition: 4th ed. Description: xviii, 311p. ISBN: 9783030119164. Subject(s): Lasers in surgery | Lasers -- Therapeutic use | Lasers in medicine DDC classification: 610.28 | N554I4 Summary: Medical practitioners, scientists and graduate students alike will find this exhaustive survey a ...

### PKK Library catalog > Details for: Laser tissue interactions

Soft tissue photo-thermal ablation (or photovaporolysis) is a process of vaporization of intra- and extra-cellular water. Figure 4 illustrates a laser beam irradiating the tissue surface from the left. Inside the tissue, the laser light intensity is exponentially attenuated:  $I = I_0 \text{Exp}[-x/A]$ , where A is absorption depth from Figure 3. When laser intensity  $I_0$  is greater than ablation threshold ...

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