

## Laser Technology In Biomimetics Basics And Applications Biological And Medical Physics Biomedical Engineering

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### Laser Technology In Biomimetics Basics

Lasers are progressively more used as versatile tools for fabrication purposes. The wide range of available powers, wavelengths, operation modes, repetition rates etc. facilitate the processing of a large spectrum of materials at exceptional precision and quality. Hence, manifold methods were established in the past and novel methods are continuously under development.

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This book is dedicated to laser fabrication methods in biomimetics. It introduces both, a laser technology as well as an application focused approach. The book covers the most important laser lithographic methods and various biomimetics application scenarios ranging from coatings and biotechnology to construction, medical applications and photonics.

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Biomimetics, the translation from nature-inspired principles to technical applications, is strongly multidisciplinary. This field offers intrinsically a wide scope of applications for laser based methods regarding structuring and modification of materials.

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The laser cavity, or resonator, is at the heart of the system. A single transit through a collection of excited atoms or molecules is sufficient to initiate laser action in some high-gain devices such as excimer lasers; however, for most lasers, it is necessary to further enhance the gain with multiple passes through the laser medium.

### Lasers: Understanding the Basics | lasers | Photonics ...

The laser is among the most important inventions of the twentieth century. Since its introduction in 1960, the laser has made possible a countless number of scientific, medical, industrial, and commercial applications. Theodore Maiman, the inventor of the first working laser, was quoted by The New York Times in 1964 as calling the laser "a

### An Introduction to Laser Technology and Its Applications

The technology uses laser-generated heat energy to target the treatment area, whether it involves removing unwanted skin tissue or targeting tattoo pigment and hair roots. They use different wavelengths for specific treatments in which heat energy only reaches the desired level of the dermis.

**The Basics of Cosmetic Laser Technology - MedLaserUSA**

The special nature of laser light has made laser technology a vital tool in nearly every aspect of everyday life including communications, entertainment, manufacturing, and medicine. Albert Einstein may inadvertently have taken the initial step in laser development by realizing that two types of emission are possible.

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