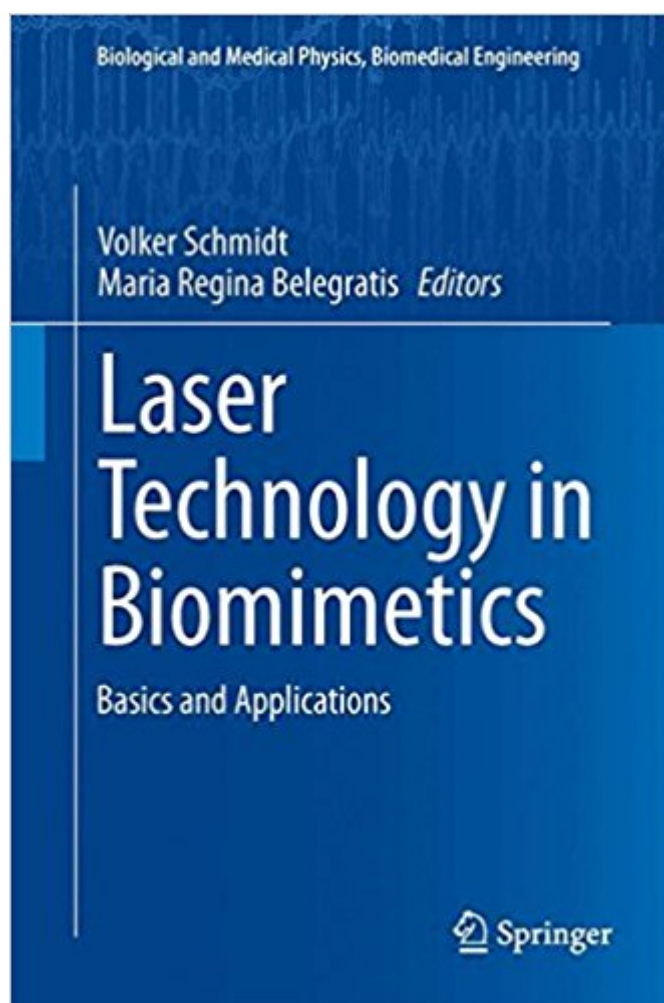


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Laser Technology In Biomimetics: Basics And Applications (Biological And Medical Physics, Biomedical Engineering)



Synopsis

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. 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. 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.

Book Information

Series: Biological and Medical Physics, Biomedical Engineering

Hardcover: 267 pages

Publisher: Springer; 2013 edition (January 3, 2014)

Language: English

ISBN-10: 3642413404

ISBN-13: 978-3642413407

Product Dimensions: 6.1 x 0.8 x 9.2 inches

Shipping Weight: 1.2 pounds (View shipping rates and policies)

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