



Laser Surface Engineering: Processes and Applications (Paperback)

By -

ELSEVIER SCIENCE TECHNOLOGY, United Kingdom, 2016. Paperback. Condition: New. Language: English . Brand New Book ***** Print on Demand *****.Lasers can alter the surface composition and properties of materials in a highly controllable way, which makes them efficient and cost-effective tools for surface engineering. This book provides an overview of the different techniques, the laser-material interactions and the advantages and disadvantages for different applications. Part one looks at laser heat treatment, part two covers laser additive manufacturing such as laser-enhanced electroplating, and part three discusses laser micromachining, structuring and surface modification. Chemical and biological applications of laser surface engineering are explored in part four, including ways to improve the surface corrosion properties of metals.



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