



Laser Surface Engineering

By Lawrence, Jonathan R. / Waugh, D

Book Condition: New. Publisher/Verlag: Woodhead Publishing | Processes and Applications | 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. Provides an overview of thermal surface treatments using lasers, including the treatment of steels, light metal alloys, polycrystalline silicon and technical ceramics Addresses the development of new metallic materials, innovations in laser cladding and direct metal deposition, and the fabrication of tuneable micro- and nano-scale surface structures Chapters also cover laser structuring, surface modification, and the chemical and biological applications of laser surface engineering | Part I - Thermal surface treatments using lasers 1 Structures, properties and development trends in laser surface treated hotworked steels, light metal alloys and polycrystalline silicon 2 Laser nitriding...



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