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Altri autori (Persone)	WendlerB. G (Bogdan G.) KulaP (Piotr) JedlinskiJ (Jerzy)
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Nota di contenuto	Surface Heat Treatment Design Methodology of Large-Scale Castings Technological Surface Layer Selection for Small Module Pitches of Gear Wheels Working under Cyclic Contact Loads ; Change of Micromechanical Properties of Polyethylene Induced by a Tribological Process in Polymer/Metal System ; Growth Structures and Phase Formation in Industrially Room-Temperature Pulsed Laser Deposited FCC Ti-Based Nitride Coatings ; Comparison of Shot Peening and Nitriding Surface Treatments under Complex Fretting Loadings ; Structure and Properties of the Wear Resistant Coatings Obtained in the PVD and CVD Processes on Tool Ceramics Oxidation Resistance of Nanocrystalline Microalloyed -TiAl Coatings under Isothermal Conditions and Thermal Fatigue ; Application of 18O2 Exposure-Based Approach to Study the Failure Mechanisms of Oxide Scales on Alumina Formers ; Strain Induced Up-Hill Diffusion of Hydrogen in Al; Keywords Index; Authors Index
Sommario/riassunto	The compilation, 'Advanced Materials and Technologies', explores

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current research efforts and progress in the design and improvement of the performance of structural and functional materials. In particular, the book deals with the relationship between a material's production route, its chemical and phase compositions and microstructure on the one hand; and their influence upon every aspect of a wide range of its properties on the other hand: as well as the various factors which affect the efficiency of applied advanced technologies. Special attention is paid to nanostructures and to properties