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Sommario/riassunto	This book offers a timely snapshot of innovative research and developments at the interface between design, manufacturing, materials, mechanical and process engineering, and quality assurance. It covers various manufacturing processes, such as grinding, turning, drilling, milling, broaching, and gear machining, including additive manufacturing, strengthening, electro-mechanical processing, vacuum technology, and deforming broaching. It focuses on computer and numerical simulation, mathematical and reliability modeling, and

machine learning models for manufacturing systems and processes. It describes innovative cutting and abrasive processes and combined technologies. It also investigates the electrical resistance, self-sharpening effect, strengthening, heat treatment, surface peening, and heat resistance of various coatings and materials. Gathering the best papers presented at the 6th Grabchenko's International Conference on Advanced Manufacturing Processes (InterPartner-2024), held in Odesa, Ukraine, on September 10–13, 2024, this book provides a comprehensive and up-to-date examination of design, manufacturing, mechanical, materials, and process engineering, as well as quality assurance trends and technologies. It also aims to foster international and interdisciplinary communication and collaborations, offering a bridge between the academic and industrial sectors.

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