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Nota di contenuto	PART I Fundamentals -- 1 Metal Processing Technology in General – Importance of Hierarchical Classification.-PART II Determinants for Functional and Performance Specifications in Machining Space -- 2 Choosing Guide in Form-generating Movement and New Approaches to Machining Technology – Correlation Diagramme among Machining Method - Tools- Attachments - Machine kinds -- 3 Raw Materials for Work, Engineering Materials and Swarf Discharge -- 4 Structural Body Components Closely Allocated around Machining Space - Core for User-oriented Platform System.-5 Work and Tool Holding Devices – Chuck, Centre, Mandrel and Tool Holder -- 6 In-process and On-the-machine Measurement.-7 “ Platform Concept ”, Its Application and Modular Tooling System.-PART III Practice and Theory at Machining Point.-8 Various Machining Methods and Tools in General -- 9 Mechanisms for Metal Cutting and Grinding Including Cutting and

Sommario/riassunto

This book describes machining technology from a wider perspective by considering it within the machining space. Machining technology is one of the metal removal activities that occur at the machining point within the machining space. The machining space consists of structural configuration entities, e.g., the main spindle, the turret head and attachments such the chuck and mandrel, and also the form-generating movement of the machine tool itself. The book describes fundamental topics, including the form-generating movement of the machine tool and the important roles of the attachments, before moving on to consider the supply of raw materials into the machining space, and the discharge of swarf from it, and then machining technology itself. Building on the latest research findings "Theory and Practice in Machining System" discusses current challenges in machining. Thus, with the inclusion of introductory and advanced topics, the book can be used as a guide and survey of machining technology for students and also as the basis for the planning of future research by professors and researchers in universities and scientific institutions. Professional engineers can use the book as a signpost to technical developments that will be applied in industry in coming years.