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	From Data, to Information, to Knowledge: Measuring Knowledge Building in the Context of Collaborative Cognition; Part III Scenario- based Evaluation Approaches 13 Forging New Evaluation Paradigms: Beyond Statistical Generalization14 Facets of Complexity in Situated Work; 15 Evaluating the Resilience of a Human-Computer Decision-making Team: A Methodology for Decision-Centered Testing; 16 Synthetic Task Environments: Measuring Macrocognition; 17 System Evaluation Using the Cognitive Performance Indicators; Index
Sommario/riassunto	Macrocognition Metrics and Scenarios: Design and Evaluation for Real- World Teams translates advances by scientific leaders in the relatively new area of macrocognition into a format that will support immediate use by members of the software testing and evaluation community for large-scale systems as well as trainers of real-world teams. Macrocognition is defined as how activity in real-world teams is adapted to the complex demands of a setting with high consequences for failure. The primary distinction between macrocognition and prior research is that the primary unit for measurement is a real-world team coordinating their activity, rather than individuals processing information, the predominant model for cognition for decades. This book provides an overview of the theoretical foundations of macrocognition, describes a set of exciting new macrocognitive metrics, and provides guidance on using the metrics in the context of different approaches to evaluation and measurement of real-world teams.