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Sommario/riassunto	This book reports on the latest developments and challenges in lean philosophy, within the context of operational excellence. It explores key areas such as data-driven lean strategies, innovative lean training approaches and continuous improvement systems, emphasizing their role in promoting resilience and competitiveness. It highlights the role of lean management in industrial digitalization, automation, and sustainable practices. Based on the 11th European Lean Educator Conference (ELEC 2025), held on October 22-24, 2025, at the Rzeszów University of Technology, Rzeszów, Poland, this first volume of a 2-volume set provides academics and professionals with extensive information on technologies, challenges, and practice-oriented experience for the future of the industry.