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Sommario/riassunto	This book reports on intelligent systems and methods applied to engineering production and maintenance. Being the second of two

volumes, it specifically focuses on advanced tools for optimizing manufacturing processes, increasing their automation, safety, and sustainability. It covers cutting-edge topics in quality control, predictive maintenance, green supply chain and circular economy, and their significance for different industries. Based the 5th International Conference on Intelligent Systems in Production Engineering and Maintenance, ISPEM 2025, held on June 25-27, 2025, in Wroclaw, Poland, this book offers a timely snapshot of intelligent systems applications and advances in industry 4.0 in engineering design and manufacturing.