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   Sommario/riassunto This book is a carefully curated collection of scientific papers presented at the 5th International ISPEM Conference 2025, which took place in Wrocaw, Poland, from June 25 to June 27, 2025. This prestigious event was organized by five renowned universities from around the world: Wrocaw University of Science and Technology (Poland), Liverpool John Moores University (United Kingdom), the University of Minho (Portugal), Rajamangala University of Technology Krungthep (Thailand), and Vellore Institute of Technology (India). ISPEM 2025 brought together more than 160 participants from across the globe, including leading researchers and key industry leaders from the aerospace and automotive sectors. The primary goal of the conference was to serve as a knowledge-sharing platform for scientists, experts, and practitioners in the field of intelligent production systems and maintenance. Through keynote sessions, presentations, and discussions, participants explored innovative solutions for smart factories, research findings, and case studies on advancements in maintenance and production from the

perspectives of Industry 4.0 and Industry 5.0. This publication presents cutting-edge research and groundbreaking solutions in modern, efficient, and intelligent production systems that shape the future of manufacturing. Readers find both theoretical analyses and practical implementations, supporting the advancement of production technology and automation.