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Sommario/riassunto

This volume presents select proceedings from the 5th International Conference on Mechanical Engineering, Intelligent Manufacturing and Automation Technology (MEMAT 2024), held in Nanjing, China. This volume is focused on the rapidly evolving fields of intelligent control systems and mechatronics. The book showcases interdisciplinary innovations that bridge mechanical engineering, automation, and smart technologies. The book covers topics such as intelligent mechatronics and robotics, advanced control design and algorithms, fault diagnosis and maintenance theory, process control and electric automation, etc.. The book serves as a valuable resource for researchers, engineers, and professionals working in materials and structural engineering, offering insights into both theoretical advancements and practical implementations. It also highlights collaborative efforts across academia and industry to address global challenges through innovative engineering solutions.