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#### Sommario/riassunto

The book covers timely topics in mechanical engineering, with a special attention to advances in machine design, product assembly, technological aspects of production, mechatronics and production maintenance. Gathering peer-review contributions to the 8th International Scientific-Technical Conference MANUFACTURING 2024, held on May 14-16, 2024, in Poznan, Poland, it reports on cutting-edge research and methods fostering design processes, optimization of industrial processes, such as welding and molding, and machining, with an emphasis on sustainable solutions. All in all, this book offers a timely guide for researchers and professionals in mechanical engineering and manufacturing, yet it is also intended to foster communication and cooperation between universities and industrial partners. .

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