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Sommario/riassunto	This book reports on innovative concepts and practical solutions at the

intersection between engineering design, applied mechanics, and production engineering. It covers cutting-edge design, modeling, and control of dynamic and multiphysics systems, advances in material engineering, and the assessment of additive manufacturing processes and products. It highlights topics relating to energy efficiency and sustainable development, and reports on applications of artificial intelligence in manufacturing. Gathering the proceedings of the 13th International Conference on Integrated Design and Production (CPI 2024), held on December 14-16, 2024, in Monastir, Tunisia, this book continues the tradition of the previous editions, providing a valuable resource for both academics and professionals dealing with diverse issues in applied mechanics. By combining advanced theories with industrial issues, it is also expected to facilitate communication and collaboration between different groups of researchers and technology users.

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