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Sommario/riassunto	This book gathers original peer-reviewed papers reporting on innovative methods and tools in design, modeling, simulation and optimization, and their applications in engineering design, manufacturing, and other relevant industrial sectors. Based on contributions to the Fourth International Conference on Design Tools and Methods in Industrial Engineering, ADM 2024, held on September

11–13, 2024, in Palermo, Italy, and organized by the Italian Association of Design Methods and Tools for Industrial Engineering, and the Department of Engineering of the University of Palermo, this first volume of a 2-volume set focuses on advances in design for additive manufacturing, product design and engineering, design for sustainability and ecoDesign, experimental methods in product development and integrated methods for product and process design. Further topics include: simulation, analysis and optimization, design of collaborative and soft robots, geometrical product specification and tolerancing, and design methods for mobility. This book provides academics and professionals with a timely overview and extensive information on trends and technologies in industrial design and manufacturing. .
