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Sommario/riassunto	This book reports on innovations and engineering achievements of industrial relevance, with a special emphasis on mechanical engineering developments applied to modeling, simulation, and design of mechanical systems, and synthesis of new materials for advanced manufacturing applications. It gathers peer-reviewed papers presented at the 4th International Conference "Innovation in Engineering", ICIE 2025, held on June 18-20, 2025, Prague, Czech Republic. All in all, this first volume of a three-volume set provides engineering researchers and professionals with a timely snapshot of technologies and strategies that should help shaping different industrial sectors to improve production efficiency, industrial sustainability, and human well-being.

