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Sommario/riassunto	This book reports on cutting-edge research and developments in manufacturing, giving a special emphasis to solutions fostering automation and sustainability. Topics cover manufacturing process

optimization, remanufacturing, machines and mechanical design, CAD/CAM/CAE, materials characterization and processing, measurement and predictive maintenance techniques. Further topics include artificial intelligence and IoT in manufacturing, robotics, and cutting-edge issues in Industry 4.0/5.0. Based on proceedings of the 32nd edition of the International Conference on Flexible Automation and Intelligent Manufacturing, FAIM 2023, held on June 18 – 22, 2023, in Porto, Portugal, this first volume of a 2-volume set provides academics and professionals with extensive, technical information on trends and technologies in manufacturing, yet it also discusses challenges and practice-oriented experience in all the above-mentioned areas.

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