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Autore	Burduk Anna
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Altri autori (Persone)	XaviorM. Anthony MachadoJose ButdeeSuthep KrotKamil SrikhumsukPhatchani LapczynskaDagmara
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Sommario/riassunto	This book reports on intelligent systems and methods applied to engineering production and maintenance. Being the first of two volumes, it specifically focuses on advanced tools for analysing,

designing and optimizing manufacturing processes, increasing their automation, safety and sustainability. It also covers applications of intelligent methods for improving transport systems, discussing topics in mechanical engineering education alike. Based the 5th International Conference on Intelligent Systems in Production Engineering and Maintenance, ISPEM 2025, held on June 25-27, 2025, in Wroclaw, Poland, this book offers a timely snapshot of intelligent systems applications and advances in industry 4.0 in engineering design and manufacturing.