

1. Record Nr.	UNINA9911018665303321
Autore	Kulkarni Anand J
Titolo	Optimization Methods in Manufacturing Processes : A Machine-Generated Literature Overview // edited by Anand J. Kulkarni
Pubbl/distr/stampa	Singapore : , : Springer Nature Singapore : , : Imprint : Springer, , 2025
ISBN	9789819652570 9789819652563
Edizione	[1st ed. 2025.]
Descrizione fisica	1 online resource (541 pages)
Disciplina	670.42
Soggetti	Industrial engineering Production engineering Machinery Mathematical optimization Industrial and Production Engineering Machinery and Machine Elements Process Engineering Optimization
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	1. Optimization Methods in Material Handling -- 2. Optimization Methods in Traditional Machining Processes -- 3. Optimization Methods in Advanced Machining Processes -- 4. Optimization Methods in Production Planning and Scheduling -- 5. Optimization Methods in Assembly Line Management -- 6. Optimization Methods in Fault Detection and Diagnosis -- 7. Optimization Methods in Material Waste Management -- 8. Optimization Methods in Staff Scheduling and Allocation -- 9. Optimization Methods in Machine Drawings -- 10. Optimization Methods in Maintenance of Machines.
Sommario/riassunto	This book presents the result of an innovative challenge, to create a systematic literature overview driven by machine-generated content. Questions and related keywords were prepared for the machine to query, discover, collate and structure by Artificial Intelligence (AI) clustering. The AI-based approach seemed especially suitable to

provide an innovative perspective as the topics are indeed both complex, interdisciplinary and multidisciplinary, for example, climate, planetary and evolution sciences. Springer Nature has published much on these topics in its journals over the years, so the challenge was for the machine to identify the most relevant content and present it in a structured way that the reader would find useful. The automatically generated literature summaries in this book are intended as a springboard to further discoverability. They are particularly useful to readers with limited time, looking to learn more about the subject quickly and especially if they are new to the topics. Springer Nature seeks to support anyone who needs a fast and effective start in their content discovery journey, from the undergraduate student exploring interdisciplinary content to Master- or PhD-thesis developing research questions, to the practitioner seeking support materials, this book can serve as an inspiration, to name a few examples. It is important to us as a publisher to make the advances in technology easily accessible to our authors and find new ways of AI-based author services that allow human-machine interaction to generate readable, usable, collated, research content.

---