

1. Record Nr.	UNINA9910961669203321
Autore	Youssef Helmi A
Titolo	Manufacturing Technology : Materials, Processes, and Equipment
Pubbl/distr/stampa	Hoboken, : CRC Press, 2011 Boca Raton, Florida ; ; London, [England] ; ; New York : , : CRC Press, , 2012 ©2012
ISBN	9781040075883 1040075886 9780429184895 0429184891 9781439897089 1439897085
Edizione	[1st ed.]
Descrizione fisica	1 online resource (925 p.)
Classificazione	SCI041000TEC020000TEC021000
Altri autori (Persone)	El-HofyHassan A AhmedMahmoud H
Disciplina	670.427
Soggetti	Manufacturing processes
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references at the end of each chapters.
Nota di contenuto	Front Cover; Contents; Preface; Acknowledgments; Authors; Chapter 1: Introduction to Manufacturing Technology; Chapter 2: Properties of Engineering Materials; Chapter 3: Structure of Metals and Alloys; Chapter 4: Engineering Materials and Their Applications; Chapter 5: Heat Treatment of Metals and Alloys; Chapter 6: Smelting of Metallic Materials; Chapter 7: Casting of Metallic Materials; Chapter 8: Fundamentals of Metal Forming; Chapter 9: Bulk Forming of Metallic Materials; Chapter 10: Sheet Metal Forming Processes; Chapter 11: High-Velocity Forming and High-Energy-Rate Forming Chapter 12: Powder Metallurgy and Processing of Ceramic MaterialsChapter 13: Polymeric Materials and Their Processing; Chapter 14: Composite Materials and Their Fabrication Processes; Chapter 15: Fundamentals of Traditional Machining Processes; Chapter 16: Machine Tools for Traditional Machining; Chapter 17: Fundamentals of Nontraditional Machining Processes; Chapter 18: Numerical Control of

Machine Tools; Chapter 19: Industrial Robots and Hexapods; Chapter 20: Surface Technology; Chapter 21: Joining Processes; Chapter 22: Advanced Manufacturing Techniques
Chapter 23: Materials, Processes, and Design for ManufacturingChapter 24: Quality Control; Chapter 25: Automation in Manufacturing Technology; Chapter 26: Health and Safety Aspects in Manufacturing; Appendix A: List of Symbols; Appendix B: Greek Letters; Appendix C: List of Acronyms; Back Cover

Sommario/riassunto

"... describes the fundamentals of processes, their capabilities, typical applications, advantages and limitations. ... a useful reference for students at technical colleges, mechanical, manufacturing, industrial and materials engineers, professionals in related industries with manufacturing technology."--Int. J. Machining and Machinability of Materials, Vol. 13, No. 4, 2013.
