

1. Record Nr.	UNINA9910458445003321
Titolo	Elements of metallurgy and engineering alloys [[electronic resource] /] / edited by F.C. Campbell
Pubbl/distr/stampa	Materials Park, Ohio, : ASM International, c2008
ISBN	1-68015-960-7 1-61503-058-1
Descrizione fisica	1 online resource (xiii, 656 pages) : illustrations
Altri autori (Persone)	Campbell F. C (Flake C.)
Soggetti	Metals Metallurgy Alloys Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	""Contents""; ""Preface""; ""Metallic Structure""; ""Crystalline Imperfections and Plastic Deformation""; ""Solid Solutions""; ""Introduction to Phase Transformations""; ""Diffusion""; ""Phase Diagrams""; ""Solidification and Casting""; ""Recovery, Recrystallization, and Grain Growth""; ""Precipitation Hardening""; ""The Iron-Carbon System""; ""Heat Treatment of Steel""; ""Mechanical Behavior""; ""Fracture""; ""Fatigue""; ""Creep""; ""Deformation Processing""; ""Physical Properties of Metals""; ""Corrosion""; ""Plain Carbon Steels""; ""Alloy Steels""; ""Surface Hardening of Steel"" ""Tool Materials""""Stainless Steels""; ""Cast Irons""; ""Copper""; ""Aluminum""; ""Magnesium and Zinc""; ""Titanium""; ""Nickel and Cobalt""; ""Superalloys""; ""Refractory Metals""; ""Miscellaneous Nonferrous Metals""; ""Metal-Matrix Composites""; ""Metric Conversions""; ""Crystalline System Calculations""; ""Crystallographic Planes and Directions""; ""Index""