

1. Record Nr.	UNINA9910688446503321
Titolo	Aluminium Alloys and Composites / / edited by Kavian Omar Cooke
Pubbl/distr/stampa	London : , : IntechOpen, , [2020] ©2020
Descrizione fisica	1 online resource (182 pages) : illustrations
Disciplina	620.186
Soggetti	Aluminum alloys
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references.
Sommario/riassunto	Aluminium (Al) is a metal of great importance because of its excellent corrosion resistance, high electrical and thermal conductivity, good reflectivity, and very good recycling characteristics. The properties of heat-treatable Al-alloys can be further enhanced by the inclusion of a reinforcing phase that increases the mechanical properties of the overall composite. This book is a comprehensive guide on the different types of aluminum alloys and the new advances that have been made in developing and manufacturing aluminum alloys and composites. This text provides a comprehensive overview of the processing, formability, and chemical composition of aluminum alloys and composites. Part One is focused on evaluating the types and properties of advanced aluminum alloys and composites, while Part Two explores characterization. The advantage of this book is that it provides a detailed review of major advances that have occurred in the development and application of aluminum alloys and composites while outlining a development strategy for these materials.