

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. Record Nr.           | UNINA9911004826103321                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Autore                  | Geddes Blaine                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Titolo                  | Superalloys : alloying and performance / / Blaine Geddes, Hugo Leon, Xiao Huang                                                                                                                                                                                                                                                                                                                                                                                                         |
| Pubbl/distr/stampa      | Materials Park, Ohio, : ASM International, 2010                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| ISBN                    | 1-62708-313-8<br>1-61344-125-8<br>1-61503-142-1                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Descrizione fisica      | 1 online resource (184 p.)                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Altri autori (Persone)  | LeonHugo<br>HuangXiao                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Disciplina              | 620.1/6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Soggetti                | Alloys                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 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 and index.                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Nota di contenuto       | ""Contents""; ""List of Figures""; ""List of Tables""; ""Preface""; ""Introduction""; ""Overview of Superalloys""; ""Strengthening Mechanisms""; ""Phases and Microstructure of Superalloys""; ""Compositional Effects""; ""Some Considerations in the Selection of a Superalloy""; ""Selected Superalloy Compositions""; ""Element Properties""; ""Selected Superalloy Properties""; ""Micrograph Gallery""; ""Index""                                                                 |
| Sommario/riassunto      | "This practical guide provides an introduction for understanding the compositional complexity of superalloys superalloy and the wide range of alloys developed for specific applications. The basics of alloying, strengthening mechanisms, and structure of superalloys are explained in optimizing particular mechanical properties, oxidation/corrosion resistance, and manufacturing characteristics such as castability, forgeability, and weldability."--Publisher's description. |