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Autore	Reed Roger C.
Titolo	The superalloys : fundamentals and applications / / Roger C. Reed [[electronic resource]]
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Descrizione fisica	1 online resource (xiv, 372 pages) : digital, PDF file(s)
Disciplina	620.1617
Soggetti	Heat resistant alloys
Lingua di pubblicazione	Inglese
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Livello bibliografico	Monografia
Note generali	Title from publisher's bibliographic system (viewed on 05 Oct 2015).
Nota di bibliografia	Includes bibliographical references (p. 362) and index.
Nota di contenuto	; 1. Introduction -- ; 2. The physical metallurgy of nickel and its alloys -- ; 3. Single-crystal superalloys for blade applications -- ; 4. Superalloys for turbine disc applications -- ; 5. Environmental degradation : the role of coatings -- ; 6. Summary and future trends.
Sommario/riassunto	Superalloys are unique high-temperature materials used in gas turbine engines, which display excellent resistance to mechanical and chemical degradation. This book presents the underlying metallurgical principles which have guided their development and practical aspects of component design and fabrication from an engineering standpoint. The topics of alloy design, process development, component engineering, lifetime estimation and materials behaviour are described, with emphasis on critical components such as turbine blading and discs. The first introductory text on this class of materials, it will provide a strong grounding for those studying physical metallurgy at the

advanced level, as well as practising engineers. Included at the end of each chapter are exercises designed to test the reader's understanding of the underlying principles presented. Solutions for instructors and additional resources are available at www.cambridge.org/9780521859042.

2. Record Nr.	UNISALENTO991002238879707536
Titolo	Inverse problems [e-book] : lectures given at the 1st 1986 session of the Centro Internazionale Matematico Estivo (C.I.M.E.) held at Montecatini Terme, Italy, may 28-june 5, 1986 / edited by Giorgio Talenti
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ISBN	9783540473534
Descrizione fisica	1 online resource (vii, 209 p.)
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Altri autori (Persone)	Talenti, Giorgio
Disciplina	515
Soggetti	Mathematics Global analysis (Mathematics)
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