

1. Record Nr.	UNINA9910816989503321
Autore	DuPont John N. <1964->
Titolo	Welding metallurgy and weldability of nickel-base alloys // John DuPont, John C. Lippold, Samuel D. Kiser
Pubbl/distr/stampa	Hoboken, N.J., : John Wiley & Sons, c2009
ISBN	1-118-21003-4 1-282-34629-6 9786612346293 0-470-50026-3 0-470-50021-2
Edizione	[1st ed.]
Descrizione fisica	1 online resource (456 p.)
Altri autori (Persone)	KiserSamuel D. <1945-> LippoldJohn C
Disciplina	673/.733252
Soggetti	Nickel - Welding Nickel - Metallurgy Nickel alloys - Welding Nickel alloys - Metallurgy
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di contenuto	WELDING METALLURGY AND WELDABILITY OF NICKEL-BASE ALLOYS; CONTENTS; Preface; 1. Introduction; 2. Alloying Additions, Phase Diagrams, and Phase Stability; 3. Solid-Solution Strengthened Ni-base Alloys; 4. Precipitation-Strengthened Ni-base Alloys; 5. Oxide Dispersion Strengthened Alloys and Nickel Aluminides; 6. Repair Welding of Ni-base Alloys; 7. Dissimilar Welding; 8. Weldability Testing; Appendix A Composition of Wrought and Cast Nickel-Base Alloys; Appendix B Composition of Nickel and Nickel Alloy Consumables; Appendix C Corrosion Acceptance Testing Methods Appendix D Etching Techniques for Ni-base Alloys and WeldsAuthor Index; Subject Index
Sommario/riassunto	The most up-to-date coverage of welding metallurgy aspects and weldability issues associated with Ni-base alloys Welding Metallurgy and Weldability of Nickel-Base Alloys describes the fundamental

metallurgical principles that control the microstructure and properties of welded Ni-base alloys. It serves as a practical how-to guide that enables engineers to select the proper alloys, filler metals, heat treatments, and welding conditions to ensure that failures are avoided during fabrication and service. Chapter coverage includes: Alloying additions, phase diagrams, and phase stab
