

1. Record Nr.	UNINA9910827122803321
Titolo	Failure analysis of heat treated steel components / / editors, L.C.F. Canale, R.A. Mesquita, G.E. Totten
Pubbl/distr/stampa	Materials Park, OH, : ASM International, 2008
ISBN	1-62708-284-0 1-61503-098-0
Edizione	[1st ed.]
Descrizione fisica	1 online resource (ix, 650 p.) : ill
Altri autori (Persone)	CanaleLauralice de Campos Franceschini MesquitaR. A (Rafael Agnelli) TottenGeorge E
Disciplina	672.36
Soggetti	Steel - Fracture Steel - Heat treatment
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	<p>""Contents""; ""Preface""; ""Component Design""; ""Overview of the Mechanisms of Failure in Heat Treated Steel Components"";      ""Mechanisms and Causes of Failures in Heat Treated Steel Parts"";      ""General Aspects of Failure Analysis""; ""Failure in Steel Forging"";      ""Failures from the Casting Process""; ""Sources of Failures in Carburized and Carbonitrided Components""; ""Fatigue Fracture of Nitrided Layers""; ""Steel Heat Treatment Failures due to Quenching"";      ""Steel Failures due to Tempering and Isothermal Heat Treatment"";      ""Failure Analysis in Tool Steels""      ""Case Studies of Steel Component Failures in Aerospace Applications""""Failure Analysis of Powder Metal Steel Components"";      ""Induction Hardening""; ""Failure Analysis of Steel Welds""; ""Metric Conversion Guide""; ""Temperature Conversion Table""; ""Steel Hardness Conversions""; ""Austenitizing Temperatures for Steels""; ""Temper Colors for Steels""; ""Physical Properties of Carbon and Low- Alloy Steels""; ""AISI to Non-AISI Steel Cross Reference""; ""Non-AISI to AISI Steel Cross Reference""; ""Iron-Carbon Equilibrium Diagram"";      ""Isothermal Diagrams of Selected Steels""      ""Continuous Cooling Diagrams of Selected Steels""""Index"""   </p>

