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Autore	Dossett Jon L
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Nota di contenuto	Intro -- Contents -- Preface -- What Is Heat Treating? Importance and Classifications -- Fundamentals of the Heat Treating of Steel -- Hardness and Hardenability -- Furnaces and Related Equipment for Heat Treating -- Instrumentation and Control of Heat Treating Processes -- Heat Treating of Carbon Steels -- Heat Treating of Alloy Steels -- Case Hardening of Steel -- Flame and Induction Hardening -- Heat Treating of Stainless Steels -- Heat Treating of Tool Steels -- Heat Treating of Cast Irons -- Heat Treating of Nonferrous Alloys -- Assuring the Quality of Heat Treated Product -- Glossary of Heat Treating Terms -- Decarburization of Steels -- Boost/Diffuse Cycles for Carburizing -- Use of Test Coupons for Process Verification -- Index.
Sommario/riassunto	What is heat treatment? This book describes heat treating technology in clear, concise, and nontheoretical language. It is an excellent introduction and guide for design and manufacturing engineers, technicians, students, and others who need to understand why heat treatment is specified and how different processes are used to obtain desired properties. The Second Edition has been extensively updated and revised by Jon L. Dossett, who has more than forty years of experience in heat treating operations and management. The update adds important information about new processes and process control techniques that have been developed or refined in recent years. Helpful appendices have been added on decarburization of steels,

boost/diffuse cycles for carburizing, and process verification.