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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Intro -- Contents -- Preface -- About the Author -- Pure Iron -- Solutions and Phase Diagrams -- Steel and the Iron-Carbon Phase Diagram -- The Various Microstructures of Room-Temperature Steel -- Mechanical Properties -- The Low-Alloy AISI Steels -- Diffusion-A Mechanism for Atom Migration within a Metal -- Control of Grain Size by Heat Treatment and Forging -- Hardenability of Steel -- Tempering -- Austenitization -- Quenching -- Stainless Steels -- Tool Steels -- Solidification -- Cast Irons -- Surface Hardening Treatment of Steels -- Temperature Measurement -- Stainless Steels for Knifemakers -- Index.
Sommario/riassunto	This book explains the metallurgy of steel and its heat treatment for non-metallurgists. It starts from simple concepts-beginning at the level of high-school chemistry classes-and building to more complex concepts involved in heat treatment of most types of steel as well as cast iron. It was inspired by the author when working with practicing bladesmiths for more than 15 years. Most chapters in the book contain a summary at the end. These summaries provide a short review of the contents of each chapter. This book is THE practical primer on steel metallurgy for those who heat, forge, or machine steel.