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Nota di contenuto	Intro -- Contents -- Preface -- About the Authors -- History -- Introduction -- Brazes and Their Metallurgy -- The Joining Environment -- The Role of Materials in Defining Process Constraints -- Filler Metals for Carat Gold and Hallmark Silver Jewelery -- Diffusion Brazing -- Direct Brazing of Nonmetals -- Abbreviations and Symbols -- Index.
Sommario/riassunto	Principles of Brazing is a valuable resource for those working with the brazing process or designing component joints. This book will help solve practical engineering challenges, by building on fundamental metallurgy. Precisely written, and well referenced, containing 200 figures and 56 tables, this book compares joining methods, explains the fundamental parameters of brazes, and surveys the metallurgy of braze alloy systems. The joining atmosphere, fluxes and fluxless brazing are investigated. The constraints that component metal and non-metal materials place on the brazing process are examined. A chapter is devoted to the direct brazing of non-metals. Jewelers will find the chapter on filler metals for gold and silver of interest. The authors received valuable feedback from readers of their first book, Principles of Soldering and Brazing.