Record Nr. UNINA9910139516403321 Metallurgy and mechanics of welding [[electronic resource]]: processes **Titolo** and industrial applications / / edited by Regis Blondeau Pubbl/distr/stampa London, : ISTE Hoboken, NJ,: John Wiley & Sons, c2008 **ISBN** 1-282-16511-9 9786612165115 0-470-61127-8 0-470-39389-0 Descrizione fisica 1 online resource (514 p.) Collana ISTE;; v.41 Altri autori (Persone) BlondeauRegis Disciplina 671.5/2 671.52 Soggetti Welding Electronic books. Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Description based upon print version of record. Note generali Nota di bibliografia Includes bibliographical references and index. Nota di contenuto Metallurgy and Mechanics of Welding; Table of Contents; Preface; Chapter 1. Traditional Welding Processes; 1.1. Introduction; 1.2. Conditions to create metallic bonding; 1.2.1. Activation of surfaces; 1.2.2. Elimination of obstacles to bond creation; 1.2.3. How can we classify the various welding processes?; 1.3. Industrial welding processes; 1.3.1. Processes using local fusion of components without mechanical action; 1.3.2. Processes using local fusion of components with mechanical action; 1.3.3. Processes using heating without fusion

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This book offers a comprehensive overview on the subject of welding. Written by a group of expert contributors, the book covers all welding methods, from traditional to high-energy plasmas and lasers.?The reference presents joint welding, stainless steel welding, aluminum welding, welding in the nuclear industry, and all aspects of welding quality control.