1. Record Nr. UNINA9911004829703321 Handbook of workability and process design / / edited by George E. **Titolo** Dieter, Howard A. Kuhn, S. Lee Semiatin Pubbl/distr/stampa Materials Park, OH, : ASM International, c2003 **ISBN** 1-68015-948-8 1-61503-228-2 Descrizione fisica 1 online resource (409 p.) Altri autori (Persone) DieterGeorge Ellwood KuhnHoward A SemiatinS. L Disciplina 671.3 Soggetti Metals - Formability - Testing Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Note generali Updated and expanded ed. of: Workability testing techniques. 1984. Includes bibliographical references and index. Nota di bibliografia ""Contents"": ""Preface"": ""Workability and Process Designa€?An Nota di contenuto Introduction""; ""Bulk Workability of Metals""; ""Evolution of Microstructure during Hot Working""; ""Bulk Workability Testing""; ""Cold Upset Testing""; ""Hot-Compression Testing""; ""Hot-Tension Testing""; ""Torsion Testing to Assess Bulk Workability""; ""Hot Working Simulation by Hot Torsion Testing""; ""Thermomechanical Testing""; ""Design for Deformation Processes""; ""Workability Theory and Application in Bulk Forming Processes""; ""Workability in Forging""; ""Process Design in Impression Die Forging"" ""Modeling Techniques in Forming Processes""""Rolling""; ""Thermomechanical Processing by Controlled Rolling""; ""Workability and Process Design in Rolling""; ""Drawing of Wire, Rod, and Tube""; ""Extrusion""; ""Workability and Process Design in Extrusion and Wire Drawing""; ""Multidisciplinary Process Design and Optimization: An Overview"": ""Optimal Design of Thermomechanical Processes"": ""Application of Multidisciplinary Optimization (MDO) Techniques to the Manufacturing of Aircraft Engine Components"" ""Computer-Aided Optimization for Improved Process Engineering Productivity of Complex Forgings"""Tabular Summaries of Typical Flow Stress Data""; ""Abbreviations and Symbols""; ""Index""