Record Nr. UNINA9910783059603321 Autore Soni P. R **Titolo** Mechanical alloying [[electronic resource]]: fundamentals and applications / / P.R. Soni Cambridge,: Cambridge International Science Publishing, c2001 Pubbl/distr/stampa **ISBN** 1-904602-34-7 Descrizione fisica 1 online resource (162 p.) Disciplina 711.702127 Soggetti **Alloys** Materials Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Note generali Description based upon print version of record. Nota di contenuto PREFACE; 1 INTRODUCTION; 2 MECHANICAL ALLOYING; 3 VARIATIONS OF MECHANICAL ALLOYING; 4 PROCESS CONTROL AGENTS IN MECHANICAL ALLOYING; 5 MECHANISMS IN MECHANICAL ALLOYING; 6 ENERGY TRANSFER AND ENERGY MAPS IN MECHANICAL ALLOYING; 7 CONSOLIDATION OF MECHANICALLY ALLOYED POWDERS; 8 MECHANICAL PROPERTIES OF MECHANICALLY ALLOYED MATERIALS: 9 MODELLING MECHANICAL ALLOYING; 10 JOINING OF MECHANICAL ALLOYING MATERIALS; 11 RAPID SOLIDIFICATION AND MECHANICAL ALLOYING; 12 APPLICATIONS; LIST OF SYMBOLS; Index From the initial laboratory successes in 1968, the process of Sommario/riassunto mechanical alloying has been developed into a well-controlled production operation over the years, and applied to develop varieties of materials. Being a new field, there is a wealth of recent scientific literature available but all information is scattered.