

1. Record Nr.	UNINA9910465323203321
Titolo	Powder metallurgy technology and equipment : selected topics // edited by G.S. Upadhyaya
Pubbl/distr/stampa	Zurich-Durnten ; ; Enfield, New Hampshire : , : Trans Tech Publications, , [2012] ©2012
ISBN	3-03826-379-6
Descrizione fisica	1 online resource (186 p.)
Collana	Materials science foundations, , 1422-3597 ; ; volume 73
Disciplina	671.37
Soggetti	Powder metallurgy Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Powder Metallurgy Technology and Equipment: Selected Topics; Dedicated to My Friend; The Editor; Preface; Table of Contents; Table of Contents; Powder Metallurgy Technology : An Introductory Overview; Advanced Screening to Produce High Performance Powder Metals; Pneumatic Transport of Bulk Powder: Design and Equipment; Powder Metallurgy Compaction Press Selection: Risks and Opportunities; Capabilities of Conventional and Advanced Powder Compacting Presses; New Press Type EP with Electrical Servo Drive System; Industrial Furnaces in Powder Metallurgy and their Process Technological Background Powder Injection Moulding: Process and Equipment Debinding Equipment for Powder Metal Injection Molded (MIM) Parts; Sintering Equipment for Powder Metal Injection Molded (MIM) Parts; High Temperature Mechanical Properties Measurements of Sintered Products by Impulse Excitation Technique; An Integrated Approach to optimize the Interaction of Powder Concepts, Tooling and Compaction Aspects in PM Component Manufacturing; Organisations of the Contributors; Index; Authors Index
Sommario/riassunto	Powder metallurgy is one of the leading processes used for forming engineering components. The technology, as developed at the beginning of the 20th century, has since advanced significantly from

both the materials and energy-conservation points of view. Novel, and automated, equipment has played a significant role in enhancing the growth of the powder metallurgy industry. The present work includes, in addition to the editor's introductory paper, eleven invited papers from organizations of international repute. In brief, the book presents expert assessments from the major metal-powder and powder
