1. Record Nr. UNINA9910454182503321

Titolo	Handbook of non-ferrous metal powders [[electronic resource]] : technologies and applications / / Oleg D. Neikov ... [et al.]
Pubbl/distr/stampa	Amsterdam ; ; Boston ; ; London, : Elsevier, 2009
ISBN	1-4933-0384-8 1-282-03463-4 9786612034633 0-08-055940-9
Edizione	[1st ed.]
Descrizione fisica	1 online resource (644 p.)
Altri autori (Persone)	NeikovOleg Domianovich
Disciplina	671.37
Soggetti	Powder metallurgy Nonferrous metals 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	Front Cover; Handbook of Non-Ferrous Metal Powders: Technologies and Applications; Copyright Page; Contents; Foreword; Contributors and Reviewers; Introduction; Basic methods of powder production; Section 1 Powder Characterization and Testing; Chapter 1 Powder characterization and testing; Sampling of powders; Weight of sample; Particle size distribution analysis; Sieve analysis; Sedimentation methods; Accumulation of the sediment; Micromerographs; Turbidimetry; Method of weight samples; Light scattering; Surface and bulk characterization of powders; Particle image analysis; Size measurements Particle shapeOptical microscopy; Data presentation; Metallographic microscope; Techniques of chemical analysis for powders; Scanning electron microscopy (SEM); Auger electron spectroscopy; Secondary ion mass spectrometry (SIMS) analysis; Bulk analysis; X-ray powder diffraction (XRPD); Inert gas fusion; Inductively coupled plasma atomic emission spectroscopy (ICP-AES); Atomic adsorption spectrometry (AAS); Determination of oxygen content by reduction methods; Surface area and porosity of powders; Gas adsorption; Permeametry;

Picnometry; Porosimetry; Surface tension of mercury

Restrictions and limitationsSurface area determination; Hysteresis and detained mercury; Standardization; Bubble test of pore size; Bulk properties of powders; Bulk flow parameters; Cohesive strength; Frictional properties; Bulk density; Apparent density; Funnel method; Scott volumeter; Tap density; Flow rate; Sliding at impact point; Segregation of particles; Trajectory effect; Screening model (also called sifting phenomenon); Fluidization; Angle of repose; Factors influencing the angle of repose; Compactibility of metal powders; Compressibility; Green strength; Apparatus for powder analysis

ReferencesSection 2 Powder Production Methods; Chapter 2 Mechanical crushing and grinding; Principles of grinding; Grindability; Hardgrove grindability index (ASTM D409 Standard); Bong's Work Index (JIS M4002 Standard); Crushing and grinding equipment; Crushers; Grinding techniques; Ball-medium types; Tumbling ball mills; Cylindrical ball mills; Conical ball mills; Rod mills; Planetary mills; Vibratory ball mills; Vibrating grinders; Medium agitating mills; Jet mills; Other high-energy milling methods; References; Chapter 3 Mechanical alloying; Mechanical alloying process; Milling equipment

Planetary ball millsShaker mills; Attritors; Commercial tumbling ball mills; Safety engineering; Mechanical alloying fundamentals; Oxide dispersion strengthened (ODS) alloys; Contact displacement reactions; Powder contamination; Applications; Nickel-base alloys; Aluminum-base alloys; Copper-base alloys; References; Chapter 4 Nanopowders; Production methods; Condensation technique; Chemical precipitation from solution; Spray conversion method; Plasmachemical synthesis; High-energy comminution; Powder processing methods; Applications; Vapor deposition in a vacuum; Cemented carbides

Fiber-reinforced material

Sommario/riassunto

The manufacture and use of the powders of non-ferrous metals has been taking place for many years in what was previously Soviet Russia, and a huge amount of knowledge and experience has built up in that country over the last forty years or so. Although accounts of the topic have been published in the Russian language, no English language account has existed until now.Six prominent academics and industrialists from the Ukraine and Russia have produced this highly-detailed account which covers the classification, manufacturing methods, treatment and properties of the non-ferrous metals (

2. Record Nr. UNINA9910451389303321

Autore	Alston Richard <1965, >
Titolo	Soldier and society in Roman Egypt : a social history / / Richard Alston
Pubbl/distr/stampa	London ; ; New York : , : Routledge, , 1995
ISBN	1-134-66476-1 0-203-06673-1 1-280-33040-6 9786610330409
Descrizione fisica	1 online resource (272 p.)
Disciplina	355/.00937 932.022
Soggetti	Sociology, Military - Egypt - History Electronic books. Rome Army History Egypt History 30 B.C.-640 A.D Karanis (Extinct city)
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 (p. 241-258) and index.
Nota di contenuto	Book Cover; Title; Contents; List of maps, tables and figures; Preface; Abbreviations; INTRODUCTION; THE ARMY AND THE PROVINCE; RECRUITMENT AND VETERAN SETTLEMENT; THE LEGAL STATUS OF SOLDIERS AND VETERANS; THE ARMY IN ACTION; THE ARMY AND THE ECONOMY; KARANIS: A VILLAGE IN EGYPT; DIOCLETIAN AND AFTER; CONCLUSION; MILITARY UNITS; THE ARCHAEOLOGY OF THE ARMY; Notes; Bibliography; Index
Sommario/riassunto	The province of Egypt provides unique archaeological and documentary evidence for the study of the Roman army. In this fascinating social history Richard Alston examines the economic, cultural, social and legal aspects of a military career, illuminating the life and role of the individual soldier in the army.Soldier and Society in Roman Egypt provides a complete reassessment of the impact of the Roman army on local societies, and convincingly challenges the orthodox picture. The soldiers are seen not as an isolated elite living in fear of the local

populations, but as relatively w