1. Record Nr. UNINA9910450185203321

Autore	Salak Andrej
Titolo	Machinability of powder metallurgy steels [[electronic resource] /] / A. Salak, M. Selecka and H. Danninger
Pubbl/distr/stampa	Cambridge, : Cambridge International Science Publishing, 2005
ISBN	1-280-23149-1 9786610231492 1-4237-2289-2 1-904602-44-4
Descrizione fisica	1 online resource (551 p.)
Altri autori (Persone)	SeleckaM (Marcela) DanningerH (Herbert)
Disciplina	671.37
Soggetti	Powder metallurgy 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	Cover; Contents; Introduction; 1. Introduction; 2. Powder Metallurgy Processes and Materials; 2.1. Metal powder production; 2.6.3 Heat treatment and surface hardening; 2.2. Chemical, physical and technological characteristics of metal powders; 2.3. Mixing and compaction; 2.4. Sintering; 2.5. Alloying methods and alloying elements; 2.6. Secondary operations; 2.7. Porosity and mechanical properties of sintered iron and steel; 3. PRINCIPLES OF MACHINING OF STEEL; 3.1. Machining process; 3.2. Characterisation of machining processes; 3.3. Analysis of the machining process 3.4. Machinability testing4. CUTTING TOOLS; 4.1. Cutting tool materials; 4.2. Tool coatings and hardening processes; 4.3. Cutting tool wear and tool life; 4.4. Cutting tools, workpiece material and surface integrity; 5. FACTORS INFLUENCING THE MACHINABILITY OF PM STEELS; 5.1. Effect of processing characteristics on machinability; 5.2. Effect of materials characteristics on machinability; 6. MEASURES TO IMPROVE MACHINABILITY OF PM STEELS; 6.1.Machining aids in powder metallurgy; 6.2. Production processes; 6.3. Effect of machining

operations; 7. MACHINING OF SINTERED STEELS - STATE OF ART 7.1. Plain iron and iron-carbon steels7.2. Iron-copper-carbon steel; 7.3. Nickel alloys steels; 7.4. Diffusion alloyed steels; 7.5. Chromium, manganese, chromium-manganese and solicon alloyed steels; 7.6. Iron-phosphorus steel; 7.7. Stainless steel; Comparing machinability of various steels under different cutting conditions; 7.9. Standardizing machinability of PM steels; 7.10. Special processing and machining routes for high strength - hardness PM steels; 7.11. Machining of powder forged steels; 8. RECOMMENDATIONS FOR MACHINING PM STEELS; 8.1.Recommendations for drilling
8.2. Recommendations for turning8.3. Tapping and threading; 8.4. Recommendations and cutting data for milling, reaming, broaching and green machining; 8.5. Recommendations for machining with geometrically not defined edge; 8.6. Cool-lubrication in steel machining; 8.7. Parameters for optimising machining of PM steels; 9. APPENDIX; 9.1. Relationship between hardness values determined by Vickers and Rockwell methods; 9.2. Chemical composition and designation of PM steels; 9.3. Trade designation and base characteristics; 9.4. Characteristic types of wear of hard metal inserts; References; Index

Sommario/riassunto

The aim of the book is to present knowledge for an overview of all interacting factors in the machining process, including those for improving machinability. They include the properties of basic plain iron and alloyed powders, various additions, compacting and sintering conditions. The effect of porosity, individual alloying elements and microstructure character is considered.

2. Record Nr. UNINA9910453523903321

Titolo	Wood structure in plant biology and ecology / / edited by Pieter Baas [and four others]
Pubbl/distr/stampa	Leiden, Netherlands : , : Brill, , 2013 ©2013
ISBN	90-04-26560-0
Descrizione fisica	1 online resource (185 p.)
Altri autori (Persone)	BaasP
Disciplina	575.46
Soggetti	Wood - Anatomy Botany Ecology 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 at the end of each chapters.
Nota di contenuto	Preliminary Material / Pieter Baas , Giovanna Battipaglia , Veronica De Micco , Frederic Lens and Elisabeth Wheeler -- Wood structure in Plant Biology and Ecology / P. Baas , G. Battipaglia , V. De Micco , F. Lens and E.A. Wheeler -- An overview of the hydraulic systems in early land plants / C. Strullu-Derrien , P. Kenrick , E. Badel , H. Cochard and P. Tafforeau -- Axial conduit widening in woody species: a still neglected anatomical pattern / T. Anfodillo , G. Petit and A. Crivellaro -- Hydraulic and biomechanical optimization in Norway spruce trunk wood– A review / S. Rosner -- Review of cellular and subcellular changes in cambium / P. Prislan , K. ufar , G. Koch , U. Schmitt and J. Griar -- Visualizing wood anatomy in three dimensions with high-resolution X-ray micro-tomography (CT) – A review / C.R. Brodersen -- ROXAS - an efficient and accurate tool to detect vessels in diffuse-porous species / L. Wegner , G. von Arx , U. Sass-Klaassen and B. Eilmann -- Quantifying plasticity in vessel grouping – added value from the image analysis tool ROXAS / G. von Arx , C. Kueffer and P. Fonti -- Fire influence on Pinus hale pensis: wood responses close and far from scar / V. De Micco , E. Zalloni , A. Balzano and G. Battipaglia -- Age, climate and intra-annual density fluctuations in Pinus halepensis in

Spain / K. Novak , M.A. Saz Sánchez , K. ufar , J. Raventós and M. de Luis -- Plastic growth response of European beech provenances to dry site conditions / S. Stojnic , U. Sass-Klaassen , S. Orlovic , B. Matovic and B. Eilmann -- Evaluating the wood anatomical and dendroecological potential of arctic dwarf shrub communities / F.H. Schweingruber , L. Hellmann , W. Tegel , S. Braun , D. Nievergelt and U. Büntgen -- Does growth rhythm of a widespread species change in distinct growth sites? / M.S. Costa , T.J. de Vasconcellos , C.F. Barros and C.H. Callado.

Sommario/riassunto

At present the study of functional and ecological wood anatomy enjoys a vigorous renaissance and plays a pivotal role in plant and ecosystem biology, plant evolution, and global change research. This book contains a selection of papers presented at the successful meetings of the International Association of Wood Anatomists and the Cost-Action STReESS (Studying Tree Responses to extreme Events: a Synthesis) held in Naples in April 2013. Four review papers address (1) the hydraulic architecture of the earliest land plants, (2) the general phenomenon of axial conduit tapering in trees, (3) the hydraulic and biomechanical optimization in one of the most important plantation grown tree species, Norway Spruce, and (4) cellular and subcellular changes in the cambium in response to environmental factors. Three papers review or introduce new tools to observe the 3-D structure and functioning of wood, and novel tools for quantitative image analysis in tree ring series. Finally, five papers report original research on environmental effects on wood structure, including studies on plastic responses in European beech, effects of fire or late summer rains on Mediterranean Aleppo Pine, and the potential for using arctic shrubs or tropical deciduous trees in dendrochronological and climatological studies. Reprinted from IAWA Journal 34 (4), 2013.

3.	Record Nr.	UNINA9910669807403321
	Autore	Otto Daniel
	Titolo	Distributed Learning Ecosystems : Concepts, Resources, and Repositories / / edited by Daniel Otto, Gianna Scharnberg, Michael Kerres, Olaf Zawacki-Richter
	Pubbl/distr/stampa	Wiesbaden : , : Springer Fachmedien Wiesbaden : , : Imprint : Springer VS, , 2023
	ISBN	9783658387037 3658387033
	Edizione	[1st ed. 2023.]
	Descrizione fisica	1 online resource (304 pages)
	Classificazione	EDU000000EDU015000EDU046000SCI063000
	Altri autori (Persone)	ScharnbergGianna KerresMichael Zawacki-RichterOlaf
	Disciplina	378
	Soggetti	Education, Higher Adult education Technical education Teaching Teachers - Training of Higher Education Adult Education Technology and Design education Pedagogy Teaching and Teacher Education
	Lingua di pubblicazione	Inglese
	Formato	Materiale a stampa
	Livello bibliografico	Monografia
	Nota di contenuto	Distributed Learning Ecosystems -- Distributed learning ecosystems in education -- The shift toward openness in education and the implications for learning ecosystems and ecologies -- The role of institutional repositories in higher education -- The Typologies of (Open) Online Courses and their Dimensions, Characteristics and Relationships with Distributed Learning Ecosystems, Open Educational Resources, and Massive Open Online Courses -- Open textbooks in higher education teaching -- Reuse of OER, a process model approach

-- Quality of OER -- Development of an Austrian OER certification for higher education institutions and their employees -- Creating More Generous and Sustainable Educational Futures with OER -- Reflecting Open Practices on Digital Infrastructures -- The Technical Specifications and Requirements for Connecting OER Repositories Using the LOM Standard -- Version management in a distributed infrastructure for Open Educational Resources -- Developing a metadata profile for higher education OER repositories -- A Trusted Learning Analytics Dashboard for displaying OER.

Sommario/riassunto

This open-access book is based on the observation that learning ecosystems are increasingly established in higher education institutions. However, an important aspect that is still missing is their interconnectedness. Consequently, the book intends to close this gap by introducing the concept of a distributed learning ecosystem (DLE). A DLE follows the idea of establishing an interlinkage between decentralised learning ecosystems (consisting of content repositories and educational resources) and thus serves as an integrated approach that enables learners to access and use learning content and share resources. About the Editors Dr. Daniel Otto is currently interim professor for the chair of digital education in schools at the University of Oldenburg. His research focuses on educational technology, particularly Open Educational Resources (OER) in higher education. Dr. Gianna Scharnberg holds a PhD from the University of Duisburg-Essen and has conducted several research projects in adult education. She currently works as a consultant for E-Learning and Knowledge Transfer for the German Foundation for Commitment and Volunteering. Prof. Dr. Michael Kerres is professor of educational science at the University Duisburg-Essen. He holds the chair of educational media and knowledge management and is director of the University's Learning Lab. Prof. Dr. Olaf Zawacki-Richter has been involved in the design and development of digital study programs for over 20 years. He is professor of educational technology at the University of Oldenburg and director of the Center for Open Education Research (COER) at the Institute of Education.