1. Record Nr. UNISALENTO991002140899707536

Titolo	SIAM journal on applied mathematics [e-journal]
Pubbl/distr/stampa	Philadelphia, 1966-
ISSN	1095-712X
Altri autori (Enti)	Society for Industrial and Applied Mathematics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Periodico
Note generali	Pubblicato anche in formato cartaceo Accesso elettronico: LE013 1953-2014;

2. Record Nr. UNINA9910710066303321

Autore	Yancey C. W. C
Titolo	Guidelines and procedures for implementation of executive order on seismic safety / / Charles W. C. Yancey; Joseph Greenberg
Pubbl/distr/stampa	Gaithersburg, MD : , : U.S. Dept. of Commerce, National Institute of Standards and Technology, , 1988
Descrizione fisica	1 online resource
Collana	NBSIR ; ; 88-3711
Altri autori (Persone)	GreenbergJoseph YanceyC. W. C
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
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Note generali	1988. Contributed record: Metadata reviewed, not verified. Some fields updated by batch processes. Title from PDF title page.
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3. Record Nr. UNINA9910557474503321

Autore	Kocich Radim
Titolo	Mechanical Properties in Progressive Mechanically Processed Metallic Materials
Pubbl/distr/stampa	Basel, Switzerland, : MDPI - Multidisciplinary Digital Publishing Institute, 2021
Descrizione fisica	1 online resource (256 p.)
Soggetti	History of engineering and technology
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Sommario/riassunto	The demands on innovative materials given by the ever-increasing requirements of contemporary industry require the use of high-performance engineering materials. The properties of materials and alloys are a result of their structures, which can primarily be affected by the preparation/production process. However, the production of materials featuring high levels of the required properties without the necessity to use costly alloying elements or time- and money-demanding heat treatment technologies typically used to enhance the mechanical properties of metallic materials (especially specific strength) still remains a challenge. The introduction of thermomechanical treatment represented a breakthrough in grain refinement, consequently leading to significant improvement of the mechanical properties of metallic materials. Contrary to conventional production technologies, the main advantage of such treatment is the possibility to precisely control structural phenomena that affect the final mechanical and utility properties. Thermomechanical treatment can only decrease the grain size to the scale of microns. However, further research devoted to pushing materials' performance beyond the limits led to the introduction of severe plastic deformation (SPD) methods providing producers with the ability to acquire ultra-fine-grained and nanoscaled metallic materials with superior mechanical properties. SPD methods can be performed with the help of conventional forming equipment;

however, many newly designed processes have also been introduced.