

1. Record Nr.	UNINA9910459787603321
Titolo	Material engineering practice . IX : selected, peer reviewed papers from the 9 th International Conference on Material in Engineering Practice IX, June 1213, 2014, Herl'any, Slovak Republic / / edited by Maria Mihalikova and Pavol Zubko
Pubbl/distr/stampa	Zurich, Switzerland : , : Trans Tech Publications, , 2015 Enfield, New Hampshire : , : Trans Tech Publications, , [date of distribution not identified] ©2015
ISBN	3-03826-729-5
Descrizione fisica	1 online resource (233 p.)
Collana	Key Engineering Materials, , 1662-9795 ; ; Volume 635
Disciplina	620.11
Soggetti	Materials science Material engineering 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 and index.
Nota di contenuto	Material Engineering Practice IX; Preface and Committees; Table of Contents; Changes of Mechanical Properties of AlSi7Mg0.3 Cast Alloy through Filtration; Fatigue Properties of Synthetic Nodular Cast Irons; The Fractography Analysis of IN 718 Alloy after Fatigue Test; The Modified AlSi7Mg0.3 Cast Alloy Mechanical Properties Changes at Different Testing Temperatures; The Influence of Severe Plastic Deformation on Structure and Mechanical Properties the Aluminium Alloy EN AW 6082; A Study on Sloshing Frequencies of Liquid-Tank System Analysis of New Generation Material Solutions of Lower Structure for Energy Efficient BuildingsThe Parameters Affecting Strength Calculation of Gears; The Analysis of Chosen Material Properties at Thermal Drilling; Changing the Hardness Automotive Steels at Different Strain Rate; Fluidity Test of Al-Si Alloy Using by Computer Simulation; Aberration Problem within the Process of Automation of the Photoelastic Measurement of the Stresses; Corrosion Behaviour of

Automotive Steel Sheets Depending on the Degree of Deformation; Usability of Various LTCC in Microstrip Filters Construction  
Structure and Properties of Selected Natural Materials  
Cyclic Test of DP600 Steel under Tension-Compression Load for Different Pre-Strain Levels; New Austenitic Creep Resistant Steels for Superheaters of USC Boilers; Comparison of Experimental Stamping Punch Machinability  
Made out of Unconventional Materials; Facesheet-Core Interface Delamination in Sandwich Panels; Possibilities of Preparing Tools Working in Conditions of Abrasion Wear with the Modification of the Tool Surfaces by Nitridation; The Methodic of Testing Using Experimental Equipment  
Influence of the Strain Rate and Heat Treatment on the Mechanical Properties of Steel Sheets  
High Temperature Oxidation of 9-12% Cr Materials P91 and P92 in Supercritical Water; Cleanliness and Mechanical Properties of Steel after Remelting under Different Slags by ESR; IF Steel Effect of Rate Deformation on the Fracture Surface Change;  
Microstructure of Agglomerate Produced with Charcoal as Substitution Fuel; The Influence of Current Density on Tribological Behavior Ni-Co Electroplated Coatings; Analysis of Crack in Kaplan Turbine Blade  
Calibration Process and Constructions of Extrusion Calibrators  
A Comparison of Mechanical Properties of Lumbar Bilateral Implants Manufactured by Additive and Conventional Technologies; Influence of Welding Parameters on the Quality of Resistance Spot Welded Joints of DP600 Steels; Hydrodynamic Analysis of Fluid Effect in Rigid Rectangular Tank due to Harmonic Motion; The Methodology for Determining the Springback of Large Metal Stampings; A Study of Thickness Change of Spherical Cup Made from TRIP Steel after Hydraulic Bulge Test; Steel KODUR 460MC under Creep Condition Analysis of Material Solutions of Exterior Walls with Contact Thermal Insulation System

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#### Sommario/riassunto

These are the proceedings of the 9th Scientific-Technical Conference on ""Material in engineering practice, 2014"". Its content was intended to present innovative materials on improving the properties of materials and quality of materials and, also on the degradation of properties during operation. Special attention was paid to the prediction of mechanical and technology materials properties as well as modern methods for testing the characteristics of materials. These are the proceedings of the 9th Scientific-Technical Conference on ""Material in engineering practice, 2014"". Its content was i

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2. Record Nr.	UNINA9910789484403321
Autore	Crama Yves <1958->
Titolo	Boolean functions : theory, algorithms, and applications / / Yves Crama, Peter L. Hammer [[electronic resource]]
Pubbl/distr/stampa	Cambridge : , : Cambridge University Press, , 2011
ISBN	1-107-21829-2 1-283-12720-2 1-139-07459-8 9786613127204 1-139-08139-X 1-139-07684-1 1-139-06880-6 1-139-07912-3 0-511-85200-2
Descrizione fisica	1 online resource (xxi, 687 pages) : digital, PDF file(s)
Collana	Encyclopedia of mathematics and its applications
Classificazione	MAT017000
Disciplina	511.3/24
Soggetti	Algebraic functions Algebra, Boolean
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Title from publisher's bibliographic system (viewed on 05 Oct 2015).
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Fundamental concepts and applications -- Boolean equations -- Prime implicants and minimal DNFs / Peter L. Hammer and Alexander Kogan -- Duality theory / Yves Crama and Kazuhisa Makino -- Quadratic functions / Bruno Simeone -- Horn functions / Endre Boros -- Orthogonal forms and shellability -- Regular functions -- Threshold functions -- Red-once functions / Martin C. Golumbic and Vladimir Gurvich -- Characterizations of special classes by functional equations / Lisa Hellerstein -- Partially defined Boolean functions / Toshihide Ibaraki -- Pseudo-Boolean functions -- Graphs and hypergraphs -- Algorithmic complexity -- JBool : a software tool / Claude Benzaken and Nadia Brauner.
Sommario/riassunto	Written by prominent experts in the field, this monograph provides the first comprehensive, unified presentation of the structural, algorithmic

and applied aspects of the theory of Boolean functions. The book focuses on algebraic representations of Boolean functions, especially disjunctive and conjunctive normal form representations. This framework looks at the fundamental elements of the theory (Boolean equations and satisfiability problems, prime implicants and associated short representations, dualization), an in-depth study of special classes of Boolean functions (quadratic, Horn, shellable, regular, threshold, read-once functions and their characterization by functional equations) and two fruitful generalizations of the concept of Boolean functions (partially defined functions and pseudo-Boolean functions). Several topics are presented here in book form for the first time. Because of the depth and breadth and its emphasis on algorithms and applications, this monograph will have special appeal for researchers and graduate students in discrete mathematics, operations research, computer science, engineering and economics.

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