

Content

907-911

The Influence of Ionizing Beta Radiation on the Flammability Index and Ignition Temperature of Thermoplastic Materials

Martin Bednarik, Ales Mizera, Martin Ovsik

912-916

Possibilities of Using Tram Windscreen Impact Tests in Analysis of Human-Machine Accidents

Václav Bittner, Roman Ježdík, Petr Kubový, František Lopot, Ondřej Štoček, Martin Havlíček, Martin Svoboda, Karel Jelen

917-922

Influence of Testing Method on the Course of Anisotropy Coefficient

Josef Bradac, Jiri Sobotka

923-929

Research on Distribution Automation Based on Power Supply Reliability

Shuai Du

930-935

The Application of DLC Coating on Convex-concave (C-C) Gearings

Ernest Gondár, Miroslav Božanský, Juraj Rusnák, František Tóth, Jana Repková

936-940

Effect of the Cascade Injection Molding on the Filling Behaviour

Martin Habrman, Karel Ráž, Tomáš Kalina

941-946

Microstructure and Properties of Polymer Composites

Jan Hajsman, Stepan Jenicek, Ludmila Kucerova, David Rieger

947-951

Influence of Strut Diameter and Building Direction on Strength of Lattice Structure

Pavel Hanzl, Ivana Zetková, Šárka Cajthamlová

952-958

Research on Hydraulic System Optimization of Loader Based on GA-BP

Zhang Hua, Zhao Lei, Chen Hua

959-965

Design and Dynamic Performance Study on Hydrostatic Lubrication System of High-speed Precision Roller Grinding Head

Wu Huai-chao, Zhao Li-mei, Yan Wen-meng and Xu Lei

966-972

Treatment of High-strength CFB-QP Forged Parts by Stepwise Water Quenching

Štěpán Jeníček, Ivan Vorel, Michal Pekovič

973-978

Development of the New Generation of Clamping Jaws for Thermomechanical Simulator

Tomáš Kalina, Václav Marek

979-983

Modelling of Roller-raceway Contacts in the Slewing Bearing Taking into Account Asymmetrical Load Transfer Through a Roller

Marek Krynke

984-992

Effect of Edge Geometry on Cutting Forces in Face Milling with Different Feed Rates

János Kundrák, Angelos P. Markopoulos, Tamás Makkai, Nikolaos E. Karkalos

993-997

Formwork Support Design of Roof of Subway Interval Engineering Based on Finite Element Analysis

Su Juan Li

998-1002

Collision between a Pedestrian and Tram – Pilot Experiment

Lopot, F., Kubový, P., Jelen, K., Šorfová, M., Tlapáková, E., Rulc, V., Purš, H., Ježdík, R., Svoboda, M.

1003-1009

Dynamic Analysis of the Crank Mechanism through the Numerical Solution

Marián Minárik, Ferdinand Bodnár

1010-1019

Experimental Study and Optimization in Modified Air Abrasive Jet Machining on Nickel-233 Alloy Using MCDM Techniques

S. Rajendra Prasad, Dr. K.Ravindranath, Dr.M.L.S. Devakumar

Advisory Board

Prof. hab. Dr. Stanislaw Adamczak, MSc.

Politechnika Kielce, Poland

Prof. Dana Bolibruchová, MSc. Ph.D.

UZ in Žilina, Slovakia

Prof. Milan Brožek, MSc., Ph.D.

CULS in Prague, Czech

Prof. Robert Čep, MSc., Ph.D.

VSZ TU of Ostrava, Czech

Prof. Dr. M. Numan Durakbasa

Vienna University of Technology, Austria

Prof. Berenika Hausnerova, MSc., Ph.D.

TBU in Zlin, Czech

Prof. Dr. František Holešovský, MSc.

JEPU in Usti n. Labem, Czech

Prof. Jozef Janovec, Sc.D., MSc.

SUT in Bratislava, Slovakia

Prof. h. c. Stanislaw Legutko, MSc., Sc.D.

Politechnika Poznańska, Poland

Prof. Antonin Kriz, MSc., Ph.D.

University of West Bohemia, Czech

Prof. Pavel Kovac, MSc., Ph.D.

University of Novi Sad, Serbia

Prof. Dr. János Kundrák, MSc., Sc.D.

University of Miskolc, Hungary

dr hab. inż. Tomasz Lipiński

UWMazurski in Olsztyn, Poland

Prof. Jan Mádl, MSc., Ph.D.

CTU in Prague, Czech

Prof. Ioan D. Marinescu, Ph.D.

University of Toledo, USA

Prof. Štefan Michna, MSc., Ph.D.

JEPU in Usti n. Labem, Czech

Prof. Dr. Ivan Mrkvica, MSc.

VSZ TU of Ostrava, Czech

Prof. Iva Nová, MSc., Ph.D.

TU in Liberec, Czech

Prof. Dr. Hitoshi Ohmori, MSc.

RIKEN, Japan

Prof. Lubomír Šooš, MSc., Ph.D.

SUT in Bratislava, Slovakia

Prof. Karol Vasilko, MSc., Sc.D., Dr. h. c.

FPT in Presov, TU in Kosice, Slovakia

Prof. Dr. Dalibor Vojtěch, MSc.

ICHT in Prague, Czech

Col. Assoc. Prof. Milan Chalupa, Ph.D.

JEPU in Usti n. Labem, Czech

Assoc. Prof. Jan Jersák, MSc., Ph.D.

TU in Liberec, Czech

Assoc. Prof. Pavel Novák, MSc., Ph.D.

ICHT in Prague, Czech

Assoc. Prof. Dana Stancekova, MSc., Ph.D.

University of Zilina, Slovakia

Assoc. Prof. Miroslava Tavodova, MSc., Ph.D.

TU of Zvolen, Slovakia

Assoc. Prof. Jarmila Trpcevska, MSc., Ph.D.

TU of Kosice, Slovakia

Dr. Michael N. Morgan

John Moores University, Great Britain

Dr. Thomas Pearce

UWE Bristol, Great Britain

Editor-in-Chief

Assoc. Prof. Martin Novak, Eng. MSc., Ph.D.

Editor

Radek Lattner, MSc.

Editorial Office Address

J. E. Purkyne University in Usti n. Labem

Pasteurova 3334/7, 400 01 Usti n. Labem

Czech Republic

Tel.: +420 475 285 534

e-mail: editors.fsi@ujep.cz

Print

PrintPoint Ltd, Prague

Publisher

J. E. Purkyne University in Usti n. Labem

Pasteurova 1, 400 96 Usti n. Labem

Czech Republic

VAT: CZ44555601

Published 6 p. a., 300 pcs., in December 2019

196 pages

Permission: MK CR E 20470

ISSN 1213-2489

indexed on: <http://www.scopus.com>