

# International Journal of

## **APPLIED MECHANICS**



**ENGINEERING** 

ISSN 1734-4492 e-ISSN 2353-9003

#### UNIVERSITY of Zielona Góra

# International Journal of

### APPLIED MECHANICS

### **AND**

### **ENGINEERING**

2023 Volume 28

Number 4

ISSN 1734-4492 e-ISSN 2353-9003

#### International Journal of AME is abstracted/indexed in:

Applied Mechanics Reviews

Arianta

Astrophysics Data System (ADS)

Baidu Scholar

BazTech

Chemical Abstracts Service (CAS) - CAplus Chemical Abstracts Service (CAS) - SciFinder

CNKI Scholar (China Nat. Knowledge Infrastructure)

CNPIEC - cnpLINKer

Dimensions EBSCO

Engineering Village

**ExLibris** 

Genamics JournalSeek

GoOA

Google Scholar

Joogie Schou

Japan Science and Technology Agency (JST)

J-Gate

JournalTOCs

MyScienceWork

Naver Academic

Naviga (Softweco)

Norwegian Register for Sci. J., Series and Publishers

POL-index ProQuest

Publons

QOAM (Quality Open Access Market)

ReadCube

Referativnyi Zhurnal (VINITI)

SCImago (SJR)

*SCOPUS* 

Semantic Scholar Sherpa/RoMEO

**TDNet** 

TEMA Technik und Management

Ulrich's Periodicals Directory/ulrichsweb

WanFang Data

WorldCat (OCLC)

X-MOL

KESLI-NDSL (Korean Nat. Discovery for Sci. Leaders)

https://www.ijame-poland.com/ https://zbc.uz.zgora.pl/repozytorium/dlibra/publication/77304 ZIELONA GÓRA, Poland

#### **Contents**

H. M. A. Al Mohammed
Developing a work roll model by analyzing the mechanism influence through analytic calculation
R.A. Al-Samarai and Y. Al-Douri
Tribological properties of dlc and glc coating for automotive engine components application under lubrication
A.I. Anya, C. Nwachioma and H. Ali
Magnetic effects on surface waves in a rotating non-homogeneous half-space with grooved and impedance boundary characteristics
R. Barshikar, P. Baviskar, H. Ghongade, D. Dond and A. Bhadre
Investigation of parameters for fault detection of worm gear box using denoise vibration signature4
S. Dechkova
Elastic properties of tyres affecting car comfort, driving and riding
M. Ferdows and S.A. Jumana
Biomagnetic flow over a flat plate embedded by a magnetic dipole in a porous media
S. Kambampati, S.P. Emineni, C.K.Reddy M. and P.Kolloju
Fourth order computational spline method for two-parameter singularly perturbed boundary value problem 7
M.O. Oni and U. Rilwan
Role of suction/injection on electromagnetohydrodynamic natural convection flow in a porous microchannel with electroosmotic effect9
D.J. Saikia and N. Ahmed
Impacts of heat source/sink, chemical reaction and thermal radiation on unsteady MHD natural convective flow through an oscillatory infinite vertical plate in a porous medium
A.K. Yadav, A. Singh and P. Jurczak
Memory dependent triple-phase-lag thermo-elasticity in thermo-diffusive medium

This work is subject to conveight All rights reserved. No	part of this publication may be reproduced, stored in a retrieval
system or transmitted in any form or by any means, electro the written permission of the publisher, except as stated	nic, mechanical, photocopying, recording or otherwise, without below. Single photocopies of single articles may be made for
that the source is acknowledged, the permission of the a Authorization to photocopy items for internal or personal	om the text of individual contributions may be copied provided authors is obtained and Editorial Office of IJAME is notified. I use, is granted by Editorial Office of IJAME to libraries and
other users, provided that the base fee of US\$ 20.00 per co	opy is paid directly to Editorial Office of IJAME.