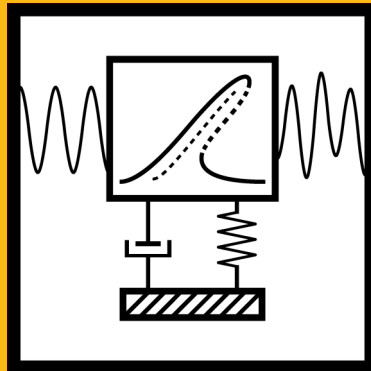


December 2014, Volume 2, Issue 4
Pages (175-224), NoP (57-62)
ISSN Print 2335-2124
ISSN Online 2424-4635

JME

Journal of
Measurements in
Engineering



Editor in chief

K. Ragulskis Lithuanian Academy of Sciences, (Lithuania) k.ragulskis@jve.lt, ragulskis.jve@gmail.com

Editorial Board

T. C. Akinci Kirklareli University, (Turkey) cetinakinci@hotmail.com

S. V. Augutis Kaunas University of Technology, (Lithuania) vygantas.augutis@ktu.lt

R. Bansevicius Kaunas University of Technology, (Lithuania) ramutis.bansevicus@ktu.lt

M. Bayat Tarbiat Modares University, (Iran) mbayat14@yahoo.com

R. Burdzik Silesian University of Technology, (Poland) rafal.burdzik@polsl.pl

M. S. Cao Hohai University, (China) cmszhy@hhu.edu.cn

Lu Chen Beihang University, (China) luchen@buaa.edu.cn

S. Ersoy Marmara University, (Turkey) sersoy@marmara.edu.tr

H. C. Eun Kangwon National University, (Korea) heechang@kangwon.ac.kr

W. H. Hsieh National Formosa University, (Taiwan) allen@nfu.edu.tw

Li Jun Adv. Inst. of Science and Engg. Information, (China) lijun@aiseiac.org

V. Kaminskas Vytautas Magnus University, (Lithuania) v.kaminskas@if.vdu.lt

S. Kaušinis Kaunas University of Technology, (Lithuania) saulius.kausinis@ktu.lt

A. Kasparaitis Vilnius Gediminas Technical University, (Lithuania) albinas.kasparaitis@vgtu.lt

R. Kažys Kaunas University of Technology, (Lithuania) rymantas.kazys@ktu.lt

V. Klyuev Association Spektr – Group, (Russia) v.klyuev@spektr.ru

G. Laukaitis Kaunas University of Technology, (Lithuania) giedrius.laukaitis@ktu.lt

V. Lyalin Izhevsk State Technical University, (Russia) velyalin@mail.ru

R. Maskeliūnas Vilnius Gediminas Technical University, (Lithuania) rimas.maskeliunas@vgtu.lt

V. Ostaševičius Kaunas University of Technology, (Lithuania) vytautas.ostasevicus@ktu.lt

D. Pisla Technical University of Cluj-Napoca, (Romania) doina.pisla@mep.utcluj.ro

L. Qiu Nanjing University of Aeronautics and Astronautics, (China) lei.qiu@nuaa.edu.cn

M. Ragulskis Kaunas University of Technology, (Lithuania) minvydas.ragulskis@ktu.lt

S. Rakheja Concordia University, (Canada) subhash.rakheja@concordia.ca

J. I. Real Technical University of Valencia, (Spain) jureaher@tra.upv.es

S. Seker Istanbul Technical University, (Turkey) sekers@itu.edu.tr

A. El Sinawi The Petroleum Institute, (United Arab Emirates) aelsinawi@pi.ac.ae

G. Song University of Houston, (USA) gsong@uh.edu

B. Spruogis Vilnius Gediminas Technical University, (Lithuania) bronislovas.spruogis@vgtu.lt

S. Toyama Tokyo A&T University, (Japan) toyama@cc.tuat.ac.jp

D. Wang City University of Hong Kong, (China) dongwang4-c@my.cityu.edu.hk

Mao Yuxin Zhejiang Gongshang University, (China) maoyuxin@zjgsu.edu.cn

JME Journal of Measurements in Engineering

Aims and Scope

JME publishes articles describing contributions in the general field of measurements in/and engineering applications.

JME welcomes theoretical papers aimed at winning further understanding of fundamentals of measurements and associated technologies, including, but not restricted to, general principles of measurement and instrumentation, sensors and systems modelling, data acquisition, processing and evaluation.

JME covers practical aspects and applications with contributions on measurement technology and engineering applications, including, but not restricted to, non-destructive measurement of vibrations, thermal, acoustic, optical and laser based measurement of engineering systems in nano, micro and macro scales.

All published papers are peer reviewed.

General Requirements

The authors must ensure that the paper presents an original unpublished work which is not under consideration for publication elsewhere.

The following structure of the manuscript is recommended: abstract, keywords, nomenclature, introduction, main text, results, conclusions and references. Manuscript should be single-spaced, one column 162×240 mm format, using Microsoft Word 2007 or higher. Margins: top 10 mm, bottom 10 mm, left 15 mm, right 10 mm, header 4 mm, footer 7 mm.

Font: Times New Roman. Title of the article 16 pt Bold, authors name 10 pt Bold, title of the institution 9 pt Regular, equations and text 10 pt Regular, indexes 5 pt Regular, all symbols Italic, vectors Bold, numbers Regular. Paragraph first line indentation 5 mm. Equations are to be written with Microsoft Office 2007 or higher Equation Tool.

Heading of the table starts with table number 9 pt Bold as “**Table 1.**”, then further text 9 pt Regular. Table itself 9 pt Regular.

Figure caption starts with figure number 9 pt Bold as “**Fig. 1.**”, then further text 9 pt Regular. Figure itself must be a single or grouped graphical item.

Tables and figures are placed after the paragraph in which they are first referenced.

List of references: reference number and authors 9 pt Bold, further information 9 pt Regular:

- [1] **Pain H. J.** The Physics of Vibrations and Waves. Chichester: John Wiley and Sons, 2005.
[2] **Juška V., Svilainis L., Dumbrava V.** Analysis of piezomotor driver for laser beam deflection. Journal of Vibroengineering, Vol. 11, Issue 1, 2009, p. 17-26.

The authors are responsible for the correctness of the English language.

The authors are expected to cover partial costs of publication in JME.

JME annual subscription fees: 60 EUR (individual); 120 EUR (institutional).

The journal material is referred:

EBSCO: Academic Search Complete;
Computers & Applied Sciences Complete;
Central & Eastern European Academic Source;
Current Abstracts;
TOC Premier.

GALE Cengage Learning: Academic OneFile Custom Periodical.

INSPEC: OCLC. The Database for Physics, Electronics and Computing.

VINITI: All-Russian Institute of Scientific and Technical Information.

Internet: <http://www.jvejournal.com>; <http://www.jve.lt>

E-mail: m.ragulskis@jve.lt; ragulskis.jve@gmail.com

Address: Geliu ratas 15A, LT-50282, Kaunas, Lithuania

Publisher: JVE International Ltd.

JME Journal of Measurements in Engineering

DECEMBER 2014. VOLUME 2, ISSUE 4, PAGES (175-224), NUMBERS OF PUBLICATIONS FROM 57 TO 62.
ISSN PRINT 2335-2124, ISSN ONLINE 2424-4635

Contents

- | | | |
|-----|---|-----|
| 57. | THE EFFECT OF THERMAL SOURCE WITH MASS DIFFUSION IN A TRANSVERSELY ISOTROPIC THERMOELASTIC INFINITE MEDIUM | 175 |
| | IBRAHIM A. ABBAS | |
| 58. | TRANSVERSE VIBRATIONS OF A TWO-DIMENSIONAL PIPE SYSTEM | 185 |
| | A. SUDINTAS, P. PAŠKEVIČIUS, B. SPRUOGIS | |
| 59. | VIBRATION AND MOTOR CURRENT ANALYSIS OF INDUCTION MOTORS TO DIAGNOSE MECHANICAL FAULTS | 190 |
| | HAKAN ÇALIŞ | |
| 60. | MEASUREMENT OF STRESSES IN VIBRATING POLYMERIC FILMS USED FOR BRAILLE ELEMENTS | 199 |
| | L. GEGECKIENĖ, E. KIBIRKŠTIS, I. VENYTĖ, A. VOLOSHIN, K. RAGULSKIS, L. RAGULSKIS | |
| 61. | SOME BASIC TIPS IN VEHICLE CHASSIS AND FRAME DESIGN | 208 |
| | GRZEGORZ SZCZEŚNIAK, PAULINA NOGOWCZYK, RAFAŁ BURDZIK | |
| 62. | ANALYTICAL AND COMPUTATIONAL METHOD OF STRUCTURE-BORNE NOISE AND SHOCK RESISTANCE OF GEAR SYSTEM | 215 |
| | ZEYIN HE, TENGJIAO LIN, JIANJUN SONG, ZHIJUN WANG, HONGJUN QUE | |

