

CURRICULUM VITAE

JULIUS KAPLUNOV

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PERSONAL DATA

Born: December 15, 1961, Moscow

Marital status: Married, two children (1990, 2002)

EDUCATION AND DEGREES

- 1979 Diploma of Education. School No. 444, Moscow.
- 1984 MSc (incl BSc). Moscow State University of Railway Engineering, Moscow (1st class degree with distinction).
- 1988 PhD in Solid Mechanics. The Institute for Problems in Mechanics, Academy of Sciences of USSR, Moscow.
- 1993 DSc in Solid Mechanics (Habilitation). The Institute for Problems in Mechanics, Russian Academy of Sciences, Moscow.
- 1997 Certified Full Professorship. Ministry of Education of Russia.

ACADEMIC APPOINTMENTS

- 1984 – 2004 Junior Researcher, Researcher, Senior Researcher Grade A, Senior Researcher Grade B and Head of Elastic Shells Unit. The Institute for Problems in Mechanics, Russian Academy of Sciences, Moscow.
- 2000 – 2005 Lecturer, Reader. Department of Mathematics, The University of Manchester, UK.
- 2005 – 2012 Professor. Department of Mathematical Sciences, Brunel University of London, UK. Head of the Department (2008 – 2010).
- 2012 – Professor. School of Computing and Mathematics, Keele University, UK. Head of the Mathematics Research Centre (since 2016), Head of the Mathematics Division (since 2017).
- 2016 – Visiting Professor. Faculty of Industrial Engineering Novo mesto.

TEACHING

2000 – 2005

University of Manchester. Courses taught:

MT3241 Asymptotic Expansions and Perturbation methods, 3 hours per week;
MT2121 Multiple Integrals, Vector-Field Theory and Tensors, 5 hours per week;
MT2252 Mathematical Modeling and Presentation, course works, 2 hours per week;
MT5251 Wave Mechanics for MSc in Theoretical and Applied Fluid Dynamics, 1 hour per week;
Mathematics for Engineers, 3 hours per week;
Dynamics of Thin Shells, Advanced course for PhD students. 1 hour per week.

2006 – 2012

Brunel University of London. Courses taught:

MA2915 Linear and Numerical Methods, part1 (including integral transforms, Fourier series, and linear PDE's), 5 hours per week;
MA3610 Ordinary and Partial Differential Equations, 3hours per week;
Final Year Compulsory Projects in Applied Mathematics.

2012 –

Keele University. Courses taught:

MAT-20004 Vector Calculus, 3 hours per week;
MAT -30011 Waves, 3 hours per week;
MAT-30028 Perturbation Methods, 3 hours per week.

VISITING POSITIONS

05/1993-10/1994

Humboldt Fellow. Technical University of Munich, Germany,.

03/1997-08/1997

03/2010-06/2010

07/1998-08/1998

Visiting Royal Society Fellow. University of Salford, UK.

10/1998-11/1998

07/2008

Visiting Professor. University of Bordeaux-1, France.

08/2009-12/2009

Visiting Professor. University of Alberta, Canada.

01/2010-03/2010

Visiting Professor. City University of Hong Kong.

12/2014-01/2015 Visiting Professor. University of Modena, Italy.
07/2015-08/2015
11/2016-01/2017
11/2017-02/2018 Visiting Professor, Anadolu University, Turkey.
04/2018
09/2018 Visiting Professor. University of South Breton, France.

AWARDS AND HONOURS

Alexander von Humboldt Fellowship (1992);

Visiting Professor, University of Ljubljana (1995);

Russian State Fellowship for Outstanding Scientists (1997);

Russian State Annual Prize in Science and Technology (1998), given for *Basic problems for thin walled structures*;

Russian Presidential Fellowship for Young Professors (younger than 40) (1998);

Distinguished Visiting Professor, Saratov State University, Russia (2001);

Fellow of the Institute of Mathematics and Its Applications, UK (2006);

Article '*Eigen-value of semi-infinite elastic strip*' (jointly with A. Pichugin and V. Zernov) is a Board Member's Favourite in Proc Roy Soc London A (2006-2007); see review by A. N. Norris
<http://www.pubs.royalsoc.ac.uk/index.cfm?page=1444> and <http://publishing.royalsociety.org/index.cfm?page=1791>

Member of Board of Governors, Integrated Nano-Science & Commodity Exchange (INSCX exchange), UK (2010);

Distinguished Visiting Fellowship from National University of Science and Technology «MISI», Moscow (2015);

Nomination for Excellence Awards in Teaching and Learning, Keele University, UK (2016 – 2018);

Distinguished Lecture Seminar Series, College of Engineering and Computer Science, Florida Atlantic University, Boca Raton (2019).

EDITORIAL ROLES

Mathematics and Mechanics of Solids (Member of the Editorial Board).

IMA Journal of Applied Mathematics (Member of the Editorial Board).

International Journal on Mechanics of Time-Dependent Materials (Member of the Editorial Board).

PMM Journal of Applied Mathematics and Mechanics (Member of the Editorial Board).

Strojniški vestnik - Journal of Mechanical Engineering (Member of the International Advisory Board).

Mathematical Problems in Engineering (Member of the Editorial Board).

Acta Mechanica et Automatica (Member of the Scientific Board).

Steigmann, D. (ed.), Kaplunov, J.D. (ed.), Special issue dedicated to Prof Erich Reissner, J. Appl. Math. Phys. (ZAMP) 51, No.4, 507-649 (2000).

Special issue: Dynamic Edge Phenomena on Elastic Structures, Math. Mech. Solids 17, No.1, 1-80 (2012). Guest Editors; Jane B Lawrie and Julius Kaplunov.

Special Issue: Structural Modelling at the Micro-, Meso-, and Nanoscales, Modelling and Simulation in Engineering. Modelling and Simulation in Engineering 2017. Guest Editors: A.M. Tarantino, J. Kaplunov, R. Luciano, C. Majorana, T. C. Rousakis, K. Willam.

Special issue dedicated to Prof Chadwick, FRS. Proc Roy Soc London A. Guest editors; Y. Fu, J. Kaplunov, and R.V. Ogden (in preparation).

CONFERENCE ORGANISATION

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| 1999 | Symposium on Mathematical Methods in Solid Mechanics, dedicated to the late Professor Eric Reissner, 3rd ICIAM, Chairman, Edinburgh, UK. |
| 2000 | 3 rd International Conference on Mechanics of Time-Dependent Materials. Member of the International Scientific Committee, University of Erlangen, Germany. |
| 2002 | EUROMECH Colloquium No. 439 on “Mathematical Modeling of the Dynamic Behavior of Thin Elastic Structures”. Co-Chairman, Saratov State University, Russia. |
| 2003 | 4 th International Conference on Mechanics of Time-Dependent Materials. Member of the International Scientific Committee, Lake Placid, USA. |
| 2005 | 5 th International Conference on Mixed Problems in Mechanics. Member of the Scientific Committee. Saratov State University, Russia. |
| 2007 | EUROMECH Colloquium No. 481 on “Recent advances in the theory and application of surface and edge waves”. Co-Chairman, Keele University, UK. |
| 2008 | British-French GDR workshop “Waveguides: scattering by bends, cross-sectional changes and defects”. Co-Organiser, Brunel University, UK. |
| 2009 | 9 th International Conference on Vibration Problems. Member of the International Scientific Committee, IIT Kharagpur, India. |
| 2010 | 11 th Pan-American Congress of Applied Mechanics. Member of the International Scientific Committee, Foz do Iguacu, Paraná, Brazil. |
| 2011 | International Conference “Continuum Mechanics and Related Problems of Analysis”, dedicated to the 120-th anniversary of Professor N. Muskhelishvili. Member of the Scientific Committee. |
| 2012 | Advanced Course “Dynamic Localization Phenomena in Elasticity, Acoustics and Electromagnetism”. Coordinator (together with Prof R.V.Craster). CISM, Udine, Italy. |

- 2012 8th International Conference on Mechanics of Time-Dependent Materials. Member of the International Scientific Committee, Kanazawa Institute of Technology, Japan.
- 2013 International Conference "Shell and Membrane Theories in Mechanics and Biology: From Macro to Nanoscale Structures". Member of the International Advisory Board, Minsk, Belorussia.
- 2015 Elasticity Day Meeting, Co-Organiser, Keele University, UK.
- EUROMECH Colloquium No. 574 on Recent Trends in Modeling of Moving Loads on Elastic Structures. Co-Chairman, Anadolu University, Turkey.
- 5th International Conference on Multiscale Modelling and Methods: Upscaling in Engineering and Medicine. Member of Program Committee, Moscow, Russia.
- 12th International Conference on Vibration Problems. Member of the International Scientific Committee and Steering Committee, IIT Guwahati, India.
- 2016 5th International Conference on Computational Mathematics, Computational Geometry and Statistics (CMCGS 2016), Member of the Program Committee, Singapore.
- 1st International Scientific Conference on the Development of Industrial Engineering. Member of the Program Committee, Estate Pule, Slovenia.
- 2017 13th International Conference on Vibration Problems. Member of the International Scientific Committee and Steering Committee, Istanbul, Turkey.
- 6th International Conference on Mechanical & Aerospace Engineering. Member of the Organising Committee, Nevada, USA.
- 2nd International Scientific Conference on the Development of Industrial Engineering: Specialisations, Entrepreneurship, Innovation, and Human Resources. Member of the Program Committee, Estate Pule, Slovenia.
- 2018 International Conference on Mathematical Modelling and Scientific Computing (ICMMS-2018). Member of the International Advisory Committee, IIT Indore, India.
- 3rd International Scientific Conference on the Development of Industrial Engineering: Opportunities, Potentials, Challenges. Member of the Program Committee, Otočec pri Novem mestu, Slovenia.
- 2019 15th International Conference "Dynamical Systems – Theory and Applications" (DSTA 2019), Member of the Scientific Committee, Lodz, Poland.
- 2019 7th International Conference on Mechanical & Aerospace Engineering. Member of the Organising Committee, San-Francisco, USA.
- 4th International Scientific Conference on the Development of Industrial Engineering: OPPORTUNITIES, POTENTIALS, CHALLENGES. Member of the Program Committee, Otočec pri Novem mestu, Slovenia.

GRADUATE STUDENTS

over 20 PhDs (5 completions in Russia, 1 completion in The University of Manchester, 6 completions in Brunel University, 4 completions in Keele University, 1 completion in Almaty University, Kazakhstan, and 6 current students),

2 DScs (2002, 2004),

2 MScs (2002, 2005).

POSTDOCTORAL FELLOWS

Dr A. Pichugin (2002-2003; EPSRC)

Dr M. V. Wilde (2002-2003; INTAS)

Dr E. Nolde (2003-2006; EPSRC, jointly with Prof G. A. Rogerson)

Dr D. A. Prikazchikov (2006-2008; Russian Ministry of Railway Transport)

Dr M. Akhmad (2008-2009; Pakistan Ministry of Education)

Dr B. Erbas (2009-2011; Anadolu University)

Dr S. Choundhary (2010- 2011; British Council)

Dr L. Prikazchikova (2015-2016; AMSTED Rail, USA)

Dr Santanu Manna (2019- ; Royal Society-SERB Newton International Fellowship)

RESEARCH GRANTS

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| 2001-2003 | NATO-Russia Collaborative Linkage Grant. <i>A dynamic investigation of rock layers to prevent catastrophe</i> . Universities of Manchester and Salford, Research Institute of Comprehensive Exploitation of Mineral Resources, Russian Academy of Sciences, Ural Mining Institute of the Russian Academy of Sciences, Perm. |
| 2001-2008 | LMS grants to support Professors B. F. Shorr and Y. A. Ustinov visits to Manchester University and Dr E. Its visit to Brunel University. |
| 2002-2003 | EPSRC Post-Doctoral Research Fellowship (GR/R53692/01). <i>Quasi-fronts in incompressible pre-stressed plates subject to edge point loading</i> . |
| 2002-2003 | INTAS Post-Doctoral Grant (YSF 2001/1-7) for Dr M. V. Wilde, Saratov State University. <i>Edge and interfacial vibration of thin structures</i> . |
| 2003-2007 | EPSRC Post-Doctoral Research Fellowship (GR/S29751/01) <i>Justification and refinement of initial value problem for long-wave models in thin structures</i> (together with G. A. Rogerson). |
| 2003-2004 | EPSRC Visiting Fellowship (GR/S11916/01) <i>An asymptotic methodology for non-adiabatic interaction in weakly inhomogeneous elastic wave-guides</i> (together with G. A. Rogerson). |
| 2004-2005 | British Council. UK-Slovenia Partnership in Science. |
| 2006-2007 | EPSRC Visiting Fellowship (EP/D038812/2) <i>Wave propagation in anisotropic solids with a weak spatial dispersion</i> to support Prof A.G. Every four-month visit to Brunel University (together with G. A. Rogerson). |
| 2007-2012 | Strategic Network with Saratov State University, Russia to support PhD, MPhil and MSc |

students at Brunel and initiate staff training and exchange programs.

- 2008-2009 EPSRC Visiting Fellowship (EP/G000972/1) *Exact solutions for elastic surface waves with general lateral dependencies in layered structure* ((together with G.A.Rogerson).
- 2009-2010 EPSRC Visiting Fellowship (EP/H021302/1) *High-frequency long-wave behavior in elastic waveguides with arbitrary cross-section* (together with E.Nolde).
- 2011-2014 Industrial collaborative project with AMSTED Rail, USA including support of a PhD student at Keele to work on Nonlinear Inverse Problems in Railway Dynamics.
- 2015-2017 Horizon 2020 Fellowship *Multi-scale modeling of waves of porous media with applications to acoustic control and bio-mechanic* (together with G.A.Rogerson).
- 2015-2016 Industrial collaborative project with AMSTED Rail, USA to support a research associate at Keele in the area of Nonlinear Railway Dynamics.
- 2016 – Erasmus bilateral exchange programs with Armenia, Azerbaijan, Belorussia, Georgia, Kazakhstan, Russia, Ukraine, and Uzbekistan.
- 2018 – 2021 ARRC (Slovenian Research Agency) three-year basic research grant J2-9224 ‘Multiparametric dynamic modelling of layered strongly inhomogeneous elastic structures’ (PI).

EXTERNAL EXAMINING

External Examiner for the MSc program in Mathematical Modelling at Liverpool University, UK (2016 -)

Member of PhD Examination Committee at Department of Mathematics, Anadolu University, Turkey (2017-)

PhD Keele University (2004, 2008, 2012), University of East Anglia (2005), Salford University (2005), Glasgow Caledonian University (2006), Imperial College of London (2006), University North Bengal (2009), University of Le Mans (2012), Aalborg University (2015), Kings College of London (2016), Guru Jambheshwar University of Science and Technology (2016), Cardiff University (2017), Aberystwyth University (2017). IIT (Indian School of Mines) Dhanbad (2017, 2018), COMSATS University Islamabad (2019), Southampton University (2019).

DSc (Habilitation) Pierre and Marie Curie University Paris-6 (2007).

MPhil Southampton University (2011).

RECENT INVITED PRESENTATIONS

Research Seminar. Anadolu University, Turkey (April 2013).

17th Workshop on Advances in Experimental Mechanics, University of Ljubljana, Portoroz, Slovenia (August 2013).

Research Seminar. Department of Earth and Environmental Sciences, KU Leuven, Belgium (June, 2013).

Society Engineering Science Symposium in Honour of D. J. Steigmann. Brown University, USA (July 2013).

Research Seminar. United Technologies Research Centre, CT, USA (July, 2013).

11th International Conference on Vibration Problems. Universidade Nova de Lisboa, Lisbon, Portugal (September 2013).

12th Conference on Dynamical Systems - Theory and Applications. *Keynote Lecture*, The University of Lodz, Poland (December 2013).

Research Seminar, Brunel University of London (January 2014).

Research Seminar, NYU Abby Dhabi (February 2014).

Research Seminar, Curtin University, Perth, Australia (March, 2014).

Workshop on Waves in Acoustics, Elasticity and Structured Media, Imperial College London (June 2014).

Research Seminar, National University of Science and Technology «MISiS», Moscow (June 2014)

Research Seminar, Semenov Institute of Chemical Physics, Russian Academy of Sciences, Moscow (July 2014).

EURODYN 2014. Porto, Portugal (July 2014).

Workshop on Biomechanics, RWTH Aachen (September, 2014).

Mathematics Department Colloquium, University of Liverpool (October, 2014).

4th International Conference on Topical Problems in Continuum Mechanics, Tsakhkadzor, Armenia. *Keynote Lecture* (September 2015).

Research Seminar, Beijing Beihang University, China (October 2015).

Research Seminar, Beijing Jiaotong University, China (October 2015).

Nanomechanics Seminar, Cardiff University, UK (November 2015).

Research Seminar. Aberystwyth University, UK (May 2016).

1st International Scientific Conference on the Development of Industrial Engineering: Technology in the Era of Sustainable Development. Posestvo Pule, Slovenia. *Plenary Lecture* (April 2016).

Elasticity Day. Brunel University of London (June 2016).

CARBTRIB Workshop. Seville, Spain (April, 2017).

5th International Conference on Mechanical & Aerospace Engineering. Las Vegas, USA. *Keynote Lecture* (October 2017).

Elasticity Day. Manchester University, UK (May 2018).

Research Seminar. QMUL, UK (May 2018).

10th European Solid Mechanics Conference. Bologna, Italy (July 2018).

55th Annual Meeting of the Society of Engineering Science. Madrid, Spain (October 2018).

10th European Solid Mechanics Conference. Bologna, Italy (July 2018).

Research Seminar, University of South Breton, France (September 2018).

55th Annual Meeting of the Society of Engineering Science. Madrid, Spain (October 2018).

10th European Solid Mechanics Conference. Bologna, Italy (July 2018).

Research Seminar, University of South Breton, France (September, 2018).

55th Annual Meeting of the Society of Engineering Science. Madrid, Spain (October 2018).

Research Seminar. Bath University, UK (October 2018).

1st Annual International Conference on Advances in Composite Science and Technology. Moscow State Technical University, Russia (December 2018).

Industrial Lecture. TPV Group, Novo Mesto, Slovenia (February 2019).

European-Latin-American Conference of Theoretical and Applied Mechanics (ELACTAM-2019). University of Havana, Cuba (February 2019).

Distinguished Lecture. Florida Atlantic University, Boca Raton, USA (February 2019).

Elasticity Day. Exeter University, UK (May 2019).

9th International Workshop on the Multiscale Modelling and Methods. University Saint Etienne, France (June 2019).

RESEARCH INTERESTS

Shells, plates and beams

Structural vibrations

Soil and fluid-structure interaction

Composites

Multiscale Modelling

LIST OF PUBLICATIONS

BOOKS

J.D.Kaplunov, L.Yu.Kossovich, and E.V.Nolde. Dynamics of Thin Walled Elastic Bodies. Academic Press, N.-Y., 1998, 226 p.

M.V.Wilde, J.D.Kaplunov, and L.Yu.Kossovich. Edge and Interfacial Resonance Phenomena in Elastic Solids. Physmathlit, Moscow, 2010, 279 p.

R.V.Craster and J.Kaplunov (Editors). Dynamic Localization Phenomena in Elasticity, Acoustics and Electromagnetism. CISM Lecture Notes. Springer, Vienna, 2013, 256 p.

J.Kaplunov and D.Prikazchikov. Surface, Interfacial and edge waves in elastic solids (in preparation; contract with Wiley).

OTHER PUBLICATIONS

148. J.Kaplunov, D.Prikazchikov, and L.Sultanova. Rayleigh-type waves on a coated elastic half-space with a clamped surface. - Phil Trans Roy Soc A (accepted for publication).

147. A.S.M. Alzaidi, J.Kaplunov, and L.Prikazchikova, Elastic bending wave on the edge of a semi-infinite plate reinforced by a strip plate. – Math Mech Solids (2019), <https://doi.org/10.1177/1081286519840687>.

146. A.S.M. Alzaidi, J.Kaplunov, and L.Prikazchikova. The edge bending wave on a plate reinforced by a beam. – JASA 146(2019), 1061 – 1064.

145. N. Challamel, H. Zhang, C.M. Wang, and J. Kaplunov. Scale effect and higher-order boundary conditions for generalized lattices, with direct and indirect interactions. Mech. Res. Comm. 97(2019), 1-7.

144. J. Kaplunov, D. Prikazchikov, and L. Sultanova, Elastic contact of a stiff thin layer and a half-space. - ZAMP (2019) 70: 22. <https://doi.org/10.1007/s00033-018-1068-9>.

143. J.Kaplunov, D.Prikazchikov, L.Prikazchikova, and O.Sergushova. The lowest vibration spectra of multi-component structures with contrast material properties. - J Sound Vibration 445(2019), 132-147.

142. B. Erbas, J. Kaplunov, A. Nobili, and G. Kılıc. Dispersion of elastic waves in a layer interacting with a Winkler foundation. – JASA 144(2018); <https://doi.org/10.1121/1.5079640>.

141. I.V. Andrianov, V.V.Danishevskyy, J. Kaplunov, and B. Markert (2019) Wide Frequency Higher-Order Dynamic Model for Transient Waves in a Lattice. In: Andrianov I., Manevich A., Mikhlin Y., Gendelman O. (eds) Problems of Nonlinear Mechanics and Physics of Materials. Advanced Structured Materials, vol 94. Springer, 3 -12.

140. J.Kaplunov, D.Prikazchikov, and L. Sultanova. (2019) On higher-order effective boundary conditions (eds) Problems of Nonlinear Mechanics and Physics of Materials. Advanced Structured Materials, vol 94. Springer, 3 -12.
140. J.Kaplunov, D.Prikazchikov, and L. Sultanova. (2019) On higher-order effective boundary conditions for a coated elastic half-space. - In Andrianov I., Manevich A., Mikhlin Y., Gendelman O. (eds) Problems of Nonlinear Mechanics and Physics of Materials. Advanced Structured Materials, vol 94. Springer, 449 -462.
139. L.A. Prikazchikova, Y. E. Aydın, B. Erbaş, and J. Kaplunov, Asymptotic analysis of anti-plane dynamic problem for a three-layered strongly inhomogeneous laminate. - Math. Mech. Solids <https://doi.org/10.1177/1081286518790804>
138. D.Collquit, V.V.Danishevskyy, and J.Kaplunov. - Composite dynamic models for periodically heterogeneous media. – Math. Mech. Solids <https://doi.org/10.1177/1081286518776704>.
137. E. Nolde , A.V.Pichugin, and J. Kaplunov J. - An asymptotic higher-order theory for rectangular beams. - Proc. R. Soc. A 2018, 474: 20180001.
136. B. Erbaş, J. Kaplunov, E.V. Nolde, and M. Palsü. Composite wave models for elastic plates. – Proc. Roy. Soc. London A 2018, 474 20180103.
135. J. Kaplunov, D. Prikazchikov, and L. Sultanova. - Justification and refinement of Winkler–Fuss hypothesis. - ZAMP (2018) 69: 80. <https://doi.org/10.1007/s00033-018-0974-1>.
134. N. Ege, B. Erbaş, and J. Kaplunov, P. Wootton. Approximate analysis of surface wave-structure interaction. -Mech. Mater. Struct. 13 (2018), 297 – 309.
133. I.V.Andrianov. J.Kaplunov, A.K.Kudaibergenov, and L.Manevich. The effect of a weak nonlinearity on the lowest cut-off frequencies of a cylindrical shell. - Z. Angew. Math. Phys. (2018) 69: 7. <https://doi.org/10.1007/s00033-017-0902-9>.
132. R. Chebakov, J. Kaplunov, and G. A. Rogerson. A non-local asymptotic theory for thin elastic plates. - Proc. Roy. Soc. London A 2017, 473 (2203), 20170249.
131. J.Kaplunov and A.Nobili. A robust approach for analyzing dispersion of elastic waves in an orthotropic cylindrical shell. – J.Sound Vibr. 401 (2017), 23-35.
130. J.Kaplunov and D.A. Prikazchikov. An asymptotic theory for Rayleigh and Rayleigh-Type waves. - Adv. Appl. Mech. 50 (2017), 1-109.
129. J.Kaplunov, D.A. Prikazchikov, and O.Sertgushova. - Lowest Vibration modes of strongly inhomogeneous elastic structures. – Special Springer Volume. Invited chapter for A.V. Manzhurov Anniversary Volume (2017), 265-277.
128. J.Kaplunov, D.A.Prikazchikov, and L.A.Prikazchikova. Dispersion of elastic waves in strongly inhomogeneous three-layer plate. – Int. J. Solids Structures 113 (2017), 169-179.
127. J.Kaplunov and A.Nobili. Multi-parametric analysis of strongly inhomogeneous periodic waveguides with internal cutoff frequencies. Invited paper for S.J. Sabina Anniversary Volume. – Math. Meth Appl. Sci. 40 (2017), 3381–3392.
126. B.Erbaş, J.Kaplunov, D. A. Prikazchikov, and O.Sahin. The near-resonance regimes of a moving load in a 3D problem for a coated elastic half-space. – Math. Mech. Solids 22 (2017), 89–100.
- 125.J. Kaplunov and A.Nobili. The edge waves on a Kirchhoff plate bilaterally supported by a two-parameter elastic foundation. - J. Vibr. Cont. 23 (2017), 2014-2022.
124. R. Chebakov, J. Kaplunov, and G. A. Rogerson. Refined boundary conditions on the free surface of an elastic half-space taking into account non-local effects. - Proc. Roy. Soc. London A 2016, 472 (2016), 20150800.
123. J.Kaplunov, L.I.Manevich, and V.V. Smirnov. Vibrations of an elastic cylindrical shell near the lowest cut-off frequency. - Proc. Roy.Soc. London A 472 (2016), 20150753.
122. J Kaplunov, DA Prikazchikov, and GA Rogerson. Edge bending wave on a thin elastic plate resting on a Winkler foundation. - Proc. Roy. Soc. London A 472 (2016), 20160178.
121. A. Kydyrbekuly, L. Khajiyeva, G.G.A Ybraev, and J. Kaplunov. Nonlinear vibrations of a rotor-fluid-foundation system supported by rolling bearings. - Strojniški vestnik - Journal of Mechanical Engineering 62(2016), 351-362.
120. J.Kaplunov, D. Prikazchikov, and O.Sergushova. Multiparametric analysis of the lowest eigen-frequencies in strongly inhomogeneous elastic rods J. Sound Vibr. 366(2016), 264–276.

119. I. Elishakoff, J. Kaplunov, and E. Nolde. Celebrating the Centenary of Timoshenko's Study of Effects of Shear Deformation and Rotary Inertia. - *Appl. Mech. Rev* 67(2015), 060802–1–11.
118. V.V. Danishevskyy, J.Kaplunov, and G.A.Rogerson. Antiplane shear waves in a fibre-reinforced composite with a non-linear imperfect interface. - *Int. J. Non-linear Mechanics* -76 (2015), 223 – 232.
117. J. Kaplunov, A. Shestakova, I. Aleynikov, B. Hopkins, and A.Talonov Low - frequency perturbations of rigid body motions of a viscoelastic inhomogeneous bar. – *Mech. Time- Depend. Mater.* – 19 (2015), 135 – 151.
116. A.Sergaliyev, J.Kaplunov and L.Khajiyeva. Multiparametric Analysis of Drill String Vibrations. – *Proc. International Conference on Vibration Engineering and Technology of Machinery. Mechanisms and Machine Science* 23, Springer (2015), 373-377.
115. J. Kaplunov, D.A. Prikazchikov, G.A. Rogerson, and M. Lashab The edge wave on an elastically supported Kirchhoff plate. - *JASA* 136 (2014), 1487-1490.
114. J. Kaplunov, T.V. Oblakova, and D.A. Prikazchikov. Near-resonant regimes of a moving load in the plane-strain problem for a coated elastic half-space. - *Mathematical Modeling and Computational Methods*, 1(2014), 57-67.
113. R.V. Craster, L.M.Joseph, and J.Kaplunov. Long-wave asymptotic theories: The connection between functionally graded waveguides and periodic media. – *Wave Motion* 51(2014), 581-588.
112. J.Kaplunov and D.A.Prikazchikov. Explicit Models for Surface Interfacial and Edge Waves. Dynamic Localization Phenomena in Elasticity, Acoustics and Electromagnetism. CISM Lecture Notes. Springer, Vienna, 2013, 73-114. p.
111. J.D.Kaplunov, E.L.Kossovich, R.R.Moukhomodiaryov, O.V.Sorokina. Explicit models for bending edge and interfacial waves on thin isotropic plates. – *Proc. Saratov State University* 13(2013), 56-63.
110. J.Kaplunov, D.A.Prikazchikov, B.Erbas, and O.Sahin. On a 3D moving load problem for an elastic half-space (Special issue dedicated to Prof V.I.Alshits). – *Wave Motion* 50(2013), 1229-1238.
109. B.Erbas, J.Kaplunov, and D.A. Prikazchikov. The Rayleigh wave field in mixed problems for a half-plane. *IMA J. Appl. Math.* 78(2013), 1078-1086.
108. J.Kaplunov and D.A.Prikazchikov. On the formulation of the mixed problems for an elastic half-plane in the framework of an asymptotic model for the Rayleigh wave. – *Proc. Bauman Moscow State Technical University Natural Sciences (Special issue on Mathematical Modelling)*, 2012, 114-120.
107. Y.Fu and J.Kaplunov. Analysis of localized edge vibrations of cylindrical shells using Stroh formalism (Special issue on Dynamic Edge Phenomena on Elastic Structures). -*Math. Mech. Solids* 17(2012), 59-66.
106. J.B. Lawrie and J.Kaplunov. Edge waves and resonance on elastic structures: an overview (Special issue on Dynamic Edge Phenomena on Elastic Structures). -*Math. Mech. Solids* 17(2012), 4-16.
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