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Authors	Title	volume, issue, pages, year DOI	Key words	Citation style
Wusheng Tang, Yufei Nie, Zhuo Zhang, Wei Lin, YanKai Rong, Yaochen Shi, Ning Ding	Simulation Analysis and Experimental Study on Vibration Reduction Performance of Groove-Textured Friction Pair Surfaces	71 (5-6), 207-215 https://doi.org/10.5545/sv-jme.2024.1209	groove textured, friction characteristics, numerical analysis, velocity	Tang, W.,Nie, Y.,Zhang, Z.,Lin, W.,Rong, Y.,Shi, Y.,Ding, N. Simulation Analysis and Experimental Study on Vibration Reduction Performance of Groove-Textured Friction Pair Surfaces. *Stroj Vestn-J Mech E* 71 207-215 (2025) **DOI:10.5545/sv-jme.2024.1209.**
Chao He, Yangzhi Chen, Xiaoxiao Ping, Zhen Chen, Maoxi Zheng, Qinsong Zhang	Geometric Design Method of Lightweight Line Gear Mechanism	71 (5-6), 199-206 https://doi.org/10.5545/sv-jme.2024.1184	lightweight design, space curve meshing, gear design, kinematics experiments, high transmission ratio	He, C.,Chen, Y.,Ping, X.,Chen, Z.,Zheng, M.,Zhang, Q. Geometric Design Method of Lightweight Line Gear Mechanism. *Stroj Vestn-J Mech E* 71 199-206 (2025) **DOI:10.5545/sv-jme.2024.1184.**
Yongping Liu, Qi Chen, Changbin Dong	Tooth Contact Analysis of Involute Beveloid Gear Based on Higher-Order Curve Axial Modification	71 (5-6), 192-198 https://doi.org/10.5545/sv-jme.2024.1254	involute beveloid gear, higher order curve axial modification, tooth contact analysis, transmission error, assembly error	Liu, Y.,Chen, Q.,Dong, C. Tooth Contact Analysis of Involute Beveloid Gear Based on Higher-Order Curve Axial Modification. *Stroj Vestn-J Mech E* 71 192-198 (2025) **DOI:10.5545/sv-jme.2024.1254.**
Jintao Zhang, Zhecheng Jing, Haichao Zhou, Yu Zhang, Guolin Wang	Identification Method of Tire-Road Adhesion Coefficient Based on Tire Physical Model and Strain Signal for Pure Longitudinal Slip	71 (5-6), 179-191 https://doi.org/10.5545/sv-jme.2024.1036	intelligent tire, tire-road adhesion coefficient estimation, slip point, slip rate, nonlinear regression	Zhang, J.,Jing, Z.,Zhou, H.,Zhang, Y.,Wang, G. Identification Method of Tire-Road Adhesion Coefficient Based on Tire Physical Model and Strain Signal for Pure Longitudinal Slip. *Stroj Vestn-J Mech E* 71 179-191 (2025) **DOI:10.5545/sv-jme.2024.1036.**
Fu-sheng Ding, Hong-ming Lyu, Jun Chen, Hao-ran Cao, Lan-xiang Zhang	Multi-Objective Optimization Design of the Ejector Plate for Rear-Loader Garbage Trucks	71 (5-6), 169-178 https://doi.org/10.5545/sv-jme.2024.1185	garbage truck, ejector plate, multi-objective optimization, NSGA-II, Kriging	Ding, F.,Lyu, H.,Chen, J.,Cao, H.,Zhang, L. Multi-Objective Optimization Design of the Ejector Plate for Rear-Loader Garbage Trucks. *Stroj Vestn-J Mech E* 71 169-178 (2025) **DOI:10.5545/sv-jme.2024.1185.**
Qijiang Ma, Zhenbo Liu, Sen Jiang	Study on the Influence of the Splitter Blade Length on Radial and Axial Force of a Centrifugal Pump	71 (5-6), 157-168 https://doi.org/10.5545/sv-jme.2024.1259	centrifugal pump, axial force, radial force, splitter blade length, pressure fluctuation	Ma, Q.,Liu, Z.,Jiang, S. Study on the Influence of the Splitter Blade Length on Radial and Axial Force of a Centrifugal Pump. *Stroj Vestn-J Mech E* 71 157-168 (2025) **DOI:10.5545/sv-jme.2024.1259.**
Anton Bergant, Zlatko Rek, Kamil Urbanowicz	Analytical, Numerical 1D and 3D Water Hammer Investigations in a Simple Pipeline Apparatus	71 (5-6), 149-156 https://doi.org/10.5545/sv-jme.2024.1179	pipeline, water hammer, analytical solution, method of characteristics, computational fluid dynamics, unsteady skin friction	Bergant, A.,Rek, Z.,Urbanowicz, K. Analytical, Numerical 1D and 3D Water Hammer Investigations in a Simple Pipeline Apparatus. *Stroj Vestn-J Mech E* 71 149-156 (2025) **DOI:10.5545/sv-jme.2024.1179.**
Xinrong Liu, Hao Li, Yu Fang, Diqing Fan	Design and Evaluation of a Passive Compliance Control Method of an Offshore Wind Turbine Blade Grinding Robot	71 (3-4), 67-74 http://doi.org/10.5545/sv-jme.2024.1121	improved active disturbance rejection control, gravity compensation, dead-zone compensation, offshore wind turbine blade, pneumatic loading system	Liu, X., Li, H., Fang, Y., Fan, D. Design and evaluation of a passive compliance control method of an offshore wind turbine blade grinding robot. *Stroj Vestn-J Mech E* 71 67-74 (2025) **DOI:10.5545/sv-jme.2024.1121.**
Rajamani Rajagounder, Jayakrishnan Nampoothiri	Impact of Excitation Frequency and Fill Levels on Fuel Sloshing in Automotive Tanks	71 (3-4), 75-82 http://doi.org/10.5545/sv-jme.2024.1200	liquid sloshing, fuel tank, finite volume analysis, visualization, wave frequency	Rajagounder, R., Nampoothiri, J. impact of excitation frequency and fill levels on fuel sloshing in automotive tanks. *Stroj Vestn-J Mech E* 71 75-82 (2025) **DOI:10.5545/sv-jme.2024.1200.**
Peng Liu, Qing Zhao, Shijian Peng, Wenwen Quan, Zhida Gao	The Effects of Oil Temperature and Oil Return Pressure on Oil Film Damping Characteristics of a High-Speed Solenoid Valve	71 (3-4), 83-91 http://doi.org/10.5545/sv-jme.2024.1168	high-speed solenoid valve, oil temperature, oil return pressure, damping force of the oil film, cavitation	Liu, P., Zhao, Q., Peng, S., Quan, W., Gao, Z. The effects of oil temperature and oil return pressure on oil film damping characteristics of a high-speed solenoid valve. *Stroj Vestn-J Mech E* 71 83-91(2025) **DOI:10.5545/sv-jme.2024.1168.**
Ahmet Çalık	Optimizing Support Patch Geometries in Adhesively Bonded Single Lap Joints: A Finite Element Analysis Approach	71 (3-4), 92-102 http://doi.org/10.5545/sv-jme.2025.1265	Adhesive bonding, stress optimization, support patch geometry, finite element analysis	Çalık, A. Optimizing support patch geometries in adhesively bonded single lap joints: A finite element analysis approach. *Stroj Vestn-J Mech E* 71 92-102 (2025) **DOI:10.5545/sv-jme.2025.1265.**

Zhanxiang Cui, Yonghua Lu, Yun Zhu, Zezheng Wang, Ziyuan Wang	A Numerical Simulation and an Experimental Study on the Steady-State Levitation Characteristics of a Magnetic Ball Driven by External Electromagnets in a Fluid Tube: Applications to Micromachines in Human Blood Vessels	71 (3-4), 103-113 http://doi.org/10.5545/sv-jme.2024.1080	magnetic levitation, blood vessel, steady-state levitation, biomedical micromachines, multi-objective optimization	Cui, Z., Lu, Y., Zhu, Y., Wang, Z., Wang, Z. A Numerical simulation and an experimental study on the steady-state levitation characteristics of a magnetic ball driven by external electromagnets in a fluid tube: Applications to micromachines in human blood vessels. *Stroj Vestn-J Mech E* 71 103-113 (2025). **DOI:10.5545/sv-jme.2024.1080.**
Peng Liu, Jinglun Cai, Xuejing Shao, Hui Jin	Research on a Rapid Method for Obtaining the Matching Point of the Static Operating Pressure of a Supersonic Jet in a Wind Tunnel	71 (3-4), 114-126 http://doi.org/10.5545/sv-jme.2024.1199	supersonic jet, pressure matching, expansion wave, compression wave	Liu, P., Cai, J., Shao, X., Jin, H. Research on a rapid method for obtaining the matching point of the static operating pressure of a supersonic jet in a wind tunnel. *Stroj Vestn-J Mech E* 71 114-126 (2025) **DOI:10.5545/sv-jme.2024.1199.**
Trung-Thanh Nguyen, Minh-Thai Le, Thai-Chung Nguyen, Truong-An Nguyen, Xuan-Ba Dang, An-Le Van	Comparison and Optimization of Burnishing Parameters in Various Machining Conditions	71 (3-4), 127-135 http://doi.org/10.5545/sv-jme.2024.1248	cryogenic diamond burnishing; energy consumption; maximum roughness; circularity; Kriging model	Nguyen, T., Le, M., Nguyen, T., Nguyen, T., Dang, X., Van, A. comparison and optimization of burnishing parameters in various machining conditions. *Stroj Vestn-J Mech E* 71 127-135 (2025) **DOI:10.5545/sv-jme.2024.1248.**
Yan Zhang, Haodong Sun, Qi Li, Kaiming Sun, Yuanjing Mou, Shihong Zhang	Research on the Cutting Performance of Self-Lubricating Tools with Microtexture of the Front and Back Surfaces	71 (3-4), 136-145 http://doi.org/10.5545/sv-jme.2024.1181	hexagonal microtexture, PCBN tools, turning, finite element simulation, solid lubricant integration	Zhang, Y., Sun, H., Li, Q., Sun, K., Mou, Y., Zhang, S. Research on the cutting performance of self-lubricating tools with microtexture of the front and back surfaces. *Stroj Vestn-J Mech E* 71 136-145 (2025) **DOI:10.5545/sv-jme.2024.1181.**
Xinrong Liu, Hao Li, Yu Fang, Diqing Fan	Design and Evaluation of a Passive Compliance Control Method of an Offshore Wind Turbine Blade Grinding Robot	71 (3-4), 67-74 http://doi.org/10.5545/sv-jme.2024.1121	improved active disturbance rejection control, gravity compensation, dead-zone compensation, offshore wind turbine blade, pneumatic loading system	Liu, X., Li, H., Fang, Y., Fan, D. Design and evaluation of a passive compliance control method of an offshore wind turbine blade grinding robot. *Stroj Vestn-J Mech E* 71 67-74 (2025) **DOI:10.5545/sv-jme.2024.1121.**
Rajamani Rajagounder, Jayakrishnan Nampoothiri	Impact of Excitation Frequency and Fill Levels on Fuel Sloshing in Automotive Tanks	71 (3-4), 75-82 http://doi.org/10.5545/sv-jme.2024.1200	liquid sloshing, fuel tank, finite volume analysis, visualization, wave frequency	Rajagounder, R., Nampoothiri, J. (2025). Impact of excitation frequency and fill levels on fuel sloshing in automotive tanks. *Stroj Vestn-J Mech E* 71 75-82 **DOI:10.5545/sv-jme.2024.1200.**
Govindasamy, M., Mangalakaran Joseph Manuel, L.J., Thamilkolunthu, S.	Corrosion Studies on Post-Weld Heat Treated Dissimilar AISI2205 and AISI310 Joints Using Electrochemical Noise Analysis	71 (1-2), 3-9 https://doi.org/10.5545/sv-jme.2024.1084	AISI2205, AISI310, corrosion, electrochemical impedance spectroscopy, CaCl2	Govindasamy, M., Mangalakaran Joseph Manuel, L.J., Thamilkolunthu, S. Corrosion studies on post-weld heat treated dissimilar AISI2205 and AISI310 joints using electrochemical noise analysis *Stroj Vestn-J Mech E* 71 3-9 (2025) **DOI:10.5545/sv-jme.2024.1084**
Afsharzadeh, N., Eftekhari Yazdi, M., Mirabdolah Lavasani, A.	Thermal Design and Constrained Optimization of a Fin and Tube Heat Exchanger Using Differential Evolution Algorithm	*71* (1-2), 10-20 https://doi.org/10.5545/sv-jme.2023.887	Fin and tube heat exchanger, Thermal design, Constrained optimization, Differential Evolution (DE) algorithm, Total weight, Total annual cost	Afsharzadeh, N., Eftekhari Yazdi, M., Mirabdolah Lavasani, A. Thermal design and constrained optimization of a fin and tube heat exchanger using differential evolution algorithm *Stroj Vestn-J Mech E 71* 10-20 (2025) **DOI:10.5545/sv-jme.2023.887**
Krishnasamy, S., Sambasivam, S., Vaiyampalayam Govindaraj, B.	Microstructural and Mechanical Characterization of WAAM-fabricated Inconel 625: Heat Treatment Effects	*71* (1-2), 21-27 https://doi.org/10.5545/sv-jme.2024.986	pneumatically controlled pick-and-place robots, automation, reliability, LabVIEW software, failure analysis	Krishnasamy, S., Sambasivam, S., Vaiyampalayam Govindaraj, B. Microstructural and mechanical characterization of WAAM-fabricated inconel 625: heat treatment effects. *Stroj Vestn-J Mech E* 71 21-27 (2025) **DOI:10.5545/sv-jme.2024.986**
Durairaj, S.P.	Quantitative Sequential Modelling Approach to Estimate the Reliability of Computer Controlled Pneumatically Operated Pick-and-Place Robot	*71* (1-2), 28-35 https://doi.org/10.5545/sv-jme.2024.999	pneumatically controlled pick-and-place robots, automation, reliability, LabVIEW software, failure analysis	Durairaj, S.P. Quantitative sequential modelling approach to estimate the reliability of computer controlled pneumatically operated pick-and-place robot *Stroj Vestn-J Mech E* 71 28-35 (2025) **DOI:10.5545/sv-jme.2024.999**
Baralić, J., Petrović Savić, S., Koprivica, B., Đurić, S.	Connection Between the Dynamic Character of the Cutting Force and Machined Surface in Abrasive Waterjet Machining	*71* (1-2), 36-43 https://doi.org/10.5545/sv-jme.2024.1008	abrasive water jet, cutting force, traverse speed, machined surface	Baralić, J., Petrović Savić, S., Koprivica, B., Đurić, S. Connection between the dynamic character of the cutting force and machined surface in abrasive waterjet machining *Stroj Vestn-J Mech E* 71 36-43 (2025) **DOI:10.5545/sv-jme.2024.1008**
Adamczak, S., Gajur, M., Kuźmicki, K.	A Mathematical Model of the Dimensional Chain for a Generation 2 Wheel Hub Unit	*71* (1-2), 44-50 https://doi.org/10.5545/sv-jme.2024.1020	rolling-element bearings, dimensional chain, tolerance formula, axial clearance, wheel hub unit	Adamczak, S., Gajur, M., Kuźmicki, K. A mathematical model of the dimensional chain for a generation 2 wheel hub unit *Stroj Vestn-J Mech E* 71 44-50 (2025) **DOI:10.5545/sv-jme.2024.1020**
Ayaz Ümütlü, H.C., Kıral, Z., Karadeniz, Z.H.	Numerical and Experimental Investigation of Aspect Ratio Effect	*71* (1-2), 51-57 https://doi.org/10.5545/sv-jme.2024.1155	airfoil, wind tunnel, aspect ratio effect, aerodynamic coefficients, three-	Ayaz Ümütlü, H.C., Kıral, Z., Karadeniz, Z.H. Numerical and Experimental Investigation of Aspect Ratio Effect on

	on Aerodynamic Performance of NACA 4415 Airfoil Section at Low Reynolds Number		component balance, low Reynolds number	Aerodynamic Performance of NACA 4415 Airfoil Section at Low Reynolds Number *Stroj Vestn-J Mech E* 71 51-57 (2025) **DOI:10.5545/sv-jme.2024.1155**
Manickam, J., Nanjappan, B., Chandrasekaran, N.	Integration of Phase Change Material and Heat Exchanger for Enhanced Solar Desalination - A Comparative Performance Investigation	*71* (1-2), 58-63 https://doi.org/10.5545/sv-jme.2024.949	solar desalination, phase change materials, efficiency enhancement comparative analysis	Manickam, J., Nanjappan, B., Chandrasekaran, N. Integration of Phase Change Material and Heat Exchanger for Enhanced Solar Desalination - A Comparative Performance Investigation *Stroj Vestn-J Mech E* , 71 58-63 (2025) **DOI:10.5545/sv-jme.2024.949**

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Ozmen, O., Surmen, H.	Design of 3D Printed Below-Knee Prosthetic - A Finite Element and Topology Optimization Study	70, 11-12, 517-530 (2024) https://dx.doi.org/10.5545/sv-jme.2024.1034	3D printing; additive manufacturing; FEM; prosthetic design; topology optimization;	Ozmen, O., Surmen, H. Design of 3D printed below-knee prosthetic - a finite element and topology optimization study. *Stroj Vestn-J Mech E* 70 517-530 (2024) **DOI:10.5545/sv-jme.2024.1034**
Wan, Z., Yue, L., Wang, Y., Zhao, P.	Acceleration Harmonic Estimation and Suppression for Hydraulic Load Simulator Based on Artificial Bee Colony with Chaotic Search Strategy	70, 11-12, 531-542 (2024) https://dx.doi.org/10.5545/sv-jme.2024.1047	artificial bee colony; chaos-decision variable; harmonic distortion; harmonic estimation; harmonic suppression;	Wan, Z., Yue, L., Wang, Y., Zhao, P. Acceleration harmonic estimation and suppression for hydraulic load simulator based on artificial bee colony with chaotic search strategy. *Stroj Vestn-J Mech E* 70 531-542 (2024) **DOI:10.5545/sv-jme.2024.1047**
Gao, J., Liu, A., Yang, J., Zhao, S., Liu, J.	Optimization of Outer-Rotor Flux-Switching Permanent Magnet Motor Using Response Surface Method	70, 11-12, 543-553 (2024) https://dx.doi.org/10.5545/sv-jme.2023.859	outer-rotor flux switching permanent magnet motor; optimization; response surface method; finite element method; flywheel energy storage system;	Gao, J., Liu, A., Yang, J., Zhao, S., Liu, J. Optimization of outer-rotor flux-switching permanent magnet motor using response surface method. *Stroj Vestn-J Mech E* 70 543-553 (2024) **DOI:10.5545/sv-jme.2023.859**
Yang, W., Zhou, Y., Meng, G., Li, Y., Gong, T.	Improving the Efficiency of Steel Plate Surface Defect Classification by Reducing the Labelling Cost Using Deep Active Learning	70, 11-12, 554-568 (2024) https://dx.doi.org/10.5545/sv-jme.2023.900	surface defect classification; multiscale convolutional neural networks; active learning; global pooling;	Yang, W., Zhou, Y., Meng, G., Li, Y., Gong, T. Improving the efficiency of steel plate surface defect classification by reducing the labelling cost using deep active learning. *Stroj Vestn-J Mech E* 70 554-568 (2024) **DOI:10.5545/sv-jme.2023.900**
Zhang, Y., Zhou, H., Duan, C., Wang, Z., Luo, H.	Gear Differential Flank Modification Design Method for Low Noise	70, 11-12, 569-581 (2024) https://dx.doi.org/10.5545/sv-jme.2024.1072	tooth modification; low noise; angular acceleration; meshing force;	Zhang, Y., Zhou, H., Duan, C., Wang, Z., Luo, H. Gear differential flank modification design method for low noise. *Stroj Vestn-J Mech E* 70 569-581 (2024) **DOI:10.5545/sv-jme.2024.1072**
Xu, T., Guan, Q., Ma, C.	The Impact of Micro-texture Distribution on the Frictional Performance of Straight Bevel Cylindrical Gears	70, 11-12, 582-594 (2024) https://dx.doi.org/10.5545/sv-jme.2024.1033	gear transmission; micro-texture; friction; wear; stress-strain; temperature;	Xu, T., Guan, Q., Ma, C. The Impact of micro-texture distribution on the frictional performance of straight bevel cylindrical gears. *Stroj Vestn-J Mech E* 70 582-594 (2024) **DOI:10.5545/sv-jme.2024.1033**
Manikandaprabu, P., Saravanan, K.	Experimental Investigation on SS202 using Tubular and Double D Tubular Electrode Tool in Electrical Discharge Drilling Machining	70, 11-12, 595-606 (2024) https://dx.doi.org/10.5545/sv-jme.2024.1076	modified electrode geometry; material removal rate; over cut; heat affected zone; recast layer; analysis of variance;	Manikandaprabu, P., Saravanan, K. Experimental investigation on ss202 using tubular and double d tubular electrode tool in electrical discharge drilling machining. *Stroj Vestn-J Mech E* 70 595-606 (2024) **DOI:10.5545/sv-jme.2024.1076**
Diachenko, S., Balabanov, S., Sychov, M., Litosov, G., Kiryanov, N.	The Impact of the Geometry of Cellular Structure Made of Glass-Filled Polyamide on the Energy-Absorbing Properties of Design Elements	70, 11-12, 607-619 (2024) https://dx.doi.org/10.5545/sv-jme.2024.975	additive technologies; selective laser sintering; polyamide; glass; triply periodic minimal surface; energy absorption; dampers;	Diachenko, S., Balabanov, S., Sychov, M., Litosov, G., Kiryanov, N. The impact of the geometry of cellular structure made of glass-filled polyamide on the energy-absorbing properties of design elements. *Stroj Vestn-J Mech E* 70 607-619 (2024) **DOI:10.5545/sv-jme.2024.975**
Senegačnik, A., Sekavčnik, M.	The Illusion of a Green Transition in Slovenia by 2050	70, 9-10, 405-416 (2024) https://dx.doi.org/10.5545/sv-jme.2024.1007	phasing out fossil and nuclear energy sources; renewable energy sources; photovoltaic modules; pumped hydro storage; green transition;	Senegačnik, A., Sekavčnik, M. The illusion of a green transition in Slovenia by 2050. *Stroj Vestn-J Mech E* 70 405-416 (2024) **DOI:10.5545/sv-jme.2024.1007**
Denys, K., Vancraeynest, N., Cooreman, S., Rossi, M., Coppieters, S.	Through-thickness Work Hardening Variation in Thick High Strength Steel Plates: A Novel Inverse Characterization Method	70, 9-10, 417-425 (2024) https://dx.doi.org/10.5545/sv-jme.2024.1037	through thickness strain hardening; FEMU; Nelder-Mead; stereo-DIC; S690QL; thick high strength steel;	Denys, K., Vancraeynest, N., Cooreman, S., Rossi, M., Coppieters, S. Through-thickness work hardening variation in thick high strength steel plates: A novel inverse characterization method. *Stroj Vestn-J Mech E* 70 417-425 (2024) **DOI:10.5545/sv-jme.2024.1037**
Ma, Q., Cha, L., Zhang, X. .	Simulation Research on the Control Method of Bow-Collapse in Gear Cold Roll-Beating	70, 9-10, 426-439 (2024) https://dx.doi.org/10.5545/sv-jme.2023.884	cold roll-beating; bow-collapse; FE simulation; loss coefficient; cross-section radius;	Ma, Q., Cha, L., Zhang, X. Simulation research on the control method of bow-collapse in gear cold roll-beating. *Stroj Vestn-J Mech E* 70 426-439 (2024) **DOI:10.5545/sv-jme.2023.884**
Xu, F., Yang, H., Ahlin, K., Chen, Z.	Kurtosis Control of Amplitude-Modulated non-Gaussian Signals for Fatigue Test	70, 9-10, 440-451 (2024) https://dx.doi.org/10.5545/sv-jme.2023.908	non-Gaussian; amplitude modulation method; fatigue damage spectrum; kurtosis;	Xu, F., Yang, H., Ahlin, K., Chen, Z. Kurtosis control of amplitude-modulated non-Gaussian signals for fatigue test. *Stroj Vestn-J Mech E* 70 440-451 (2024) **DOI:10.5545/sv-jme.2023.908**
Gao, S., Li, Y., Zhang, Y., Ji, S., Wang, J.	Lifespan Evaluation for a Standard RV Reducer based on Fatigue Strength Theory	70, 9-10, 452-565 (2024) https://dx.doi.org/10.5545/sv-jme.2023.897	RV reducer; lifespan evaluation; crankshaft bearing; simulation analysis; accelerated test;	Gao, S., Li, Y., Zhang, Y., Ji, S., Wang, J. Lifespan evaluation for a standard RV reducer based on fatigue strength theory. *Stroj Vestn-J Mech E* 70 452-565 (2024) **DOI:10.5545/sv-jme.2023.897**

Đokić, R., Vladić, J., Jojić, T., Ličen, H.	Analysis of Power Losses and Experimental Method for Determining Resistance in Electric Elevators	70, 9-10, 466-482 (2024) https://dx.doi.org/10.5545/sv-jme.2024.1006	electric elevators; guide rails and driving mechanism resistances; efficiency determination;	Đokić, R., Vladić, J., Jojić, T., Ličen, H. Analysis of power losses and experimental method for determining resistance in electric elevators. *Stroj Vestn-J Mech E* 70 466-482 (2024) **DOI:10.5545/sv-jme.2024.1006**
Shao, Y., Chen, Y., Xiao, X., Zheng, M., He, W.	Design and Stress Analysis of Bevel Line Gears with Vertical Flank Suitable for Micro Machining	70, 9-10, 483-493 (2024) https://dx.doi.org/10.5545/sv-jme.2024.917	line gear; bevel gear; meshing theory; stress analysis; micro machining;	Shao, Y., Chen, Y., Xiao, X., Zheng, M., He, W. Design and stress analysis of bevel line gears with vertical flank suitable for micro machining. *Stroj Vestn-J Mech E* 70 483-493 (2024) **DOI:10.5545/sv-jme.2024.917**
Li, Q., Wang, B., Ma, C., Guan, Q., Shi, H., Xiao, K., Zhang, S.	Study on the Properties of Sinusoidal Micro-Textured Ball End Milling Cutter for Milling Titanium Alloy	70, 9-10, 494-506 (2024) https://dx.doi.org/10.5545/sv-jme.2024.918	sinusoidal micro-texture; milling performance of milling tools; milling force; milling temperature; surface roughness of the titanium alloy workpiece; parameter optimization; titanium alloy;	Li, Q., Wang, B., Ma, C., Guan, Q., Shi, H., Xiao, K., Zhang, S. Study on the properties of sinusoidal micro-textured ball end milling cutter for milling titanium alloy. *Stroj Vestn-J Mech E* 70 494-506 (2024) **DOI:10.5545/sv-jme.2024.918**
Karthik, T., Srinivasan, N., Rajenthirakumar, D., Sridhar, R.	Multi-Response Optimization of Single Point Incremental Forming of Al 6061 Sheet Through Grey-Based Response Surface Methodology	70, 9-10, 507-514 (2024) https://dx.doi.org/10.5545/sv-jme.2023.618	grey based RMS; Single point incremental forming; roller ball tool; surface roughness;	Karthik, T., Srinivasan, N., Rajenthirakumar, D., Sridhar, R. Multi-response optimization of single point incremental forming of Al 6061 sheet through grey-based response surface methodology. *Stroj Vestn-J Mech E* 70 507-514 (2024) **DOI:10.5545/sv-jme.2023.618**
Babič, M., Kovačič, M., Fragassa, C., Šturm, R.	Selective Laser Melting: A Novel Method for Surface Roughness Analysis	70, 7-8, 313-324 (2024) https://dx.doi.org/10.5545/sv-jme.2024.1009	additive manufacturing; selective laser melting; surface roughness; fractal geometry; network theory; genetic programming;	Babič, M., Kovačič, M., Fragassa, C., Šturm, R. Selective laser melting: A novel method for surface roughness analysis. *Stroj Vestn-J Mech E* 70 313-324 (2024) **DOI:10.5545/sv-jme.2024.1009**
Yan, H., Chang, Q., Niu, H., Wang, G., Zhao, P., He, B.	Analysis and Research on Energy Consumption of a Non-Contact High-Efficiency Tunnel De-Icing Device	70, 7-8, 325-341 (2024) https://dx.doi.org/10.5545/sv-jme.2023.764	tunnel engineering; laser de-icing; energy consumption analysis; simulation analysis;	Yan, H., Chang, Q., Niu, H., Wang, G., Zhao, P., He, B. Analysis and research on energy consumption of a non-contact high-efficiency tunnel de-icing device. *Stroj Vestn-J Mech E* 70 325-341 (2024) **DOI:10.5545/sv-jme.2023.764**
Roy, A., Dhiman, S.K.	Estimation of Surface Temperature and Heat Flux over a Hollow Cylinder and Slab using an Inverse Heat Conduction Approach	70 342-354 (2024) https://dx.doi.org/10.5545/sv-jme.2023.864	surface temperature and heat flux; inverse heat conduction; energy balance approach; hollow cylinder and flat plate; derived equations;	Roy, A., Dhiman, S.K. Estimation of surface temperature and heat flux over a hollow cylinder and slab using an inverse heat conduction approach. *Stroj Vestn-J Mech E* 70 342-354 (2024) **DOI:10.5545/sv-jme.2023.864**
Zagórski, I.	Surface Roughness Evaluation of AZ31B Magnesium Alloy After Rough Milling Using Tools with Different Geometries	70, 7-8, 355-368 (2024) https://dx.doi.org/10.5545/sv-jme.2023.885	rough milling; 3D surface roughness; Abbott-Firestone curve; rake angle; helix angle; magnesium alloy;	Zagórski, I. Surface roughness evaluation of AZ31B magnesium alloy after rough milling using tools with different geometries. *Stroj Vestn-J Mech E* 70 355-368 (2024) **DOI:10.5545/sv-jme.2023.885**
Li, D., Lv, C., Bu, Z., Yan, X., Lan, Z., Cao, L., Si, H.	Dynamic and Phase-Frequency Characteristics of Rotor Instability Induced by Steam Flow Excited Vibration in Seals	70, 7-8, 369-380 (2024) https://dx.doi.org/10.5545/sv-jme.2023.902	ultra-supercritical unit; labyrinth seal; steam flow excited vibration; dynamic characteristics; phase-frequency analysis;	Li, D., Lv, C., Bu, Z., Yan, X., Lan, Z., Cao, L., Si, H. Dynamic and phase-frequency characteristics of rotor instability induced by steam flow excited vibration in seals. *Stroj Vestn-J Mech E* 70 369-380 (2024) **DOI:10.5545/sv-jme.2023.902**
Genc, M.	Cargo E-Bike Robust Speed Control Using an MPC Battery Thermal Lumped Model Approach	70, 7-8, 381-391 (2024) https://dx.doi.org/10.5545/sv-jme.2023.899	cargo e-bike; e-micromobility; MPC; road uncertainty; lump thermal model; state-space modeling;	Genc, M. Cargo e-bike robust speed control using an MPC battery thermal lumped model approach. *Stroj Vestn-J Mech E* 70 381-391 (2024) **DOI:10.5545/sv-jme.2023.899**
Korkmaz, F., Dereli, S., Karayel, D., Kolip, A.	The Use of Heuristic Optimization Techniques on RV Cycloid Reducer Design: A Comparative Study	70, 7-8, 392-402 (2024) https://dx.doi.org/10.5545/sv-jme.2024.921	cycloid reducer; finite element analysis; optimization; heuristic algorithm;	Korkmaz, F., Dereli, S., Karayel, D., Kolip, A. The use of heuristic optimization techniques on rv cycloid reducer design: A comparative study. *Stroj Vestn-J Mech E* 70 392-402 (2024) D**OI:10.5545/sv-jme.2024.921**
Koc, P.	On Experimental Determination of Poisson's Ratio for Rock-like Materials using Digital Image Correlation	70, 5-6, 211-222 (2024) https://dx.doi.org/10.5545/sv-jme.2024.966	Poisson's ratio; digital image correlation; strain gauge; rock-like materials; uniaxial compression;	Koc, P. On experimental determination of Poisson's ratio for rock-like materials using digital image correlation. *Stroj Vestn-J Mech E* 70 211-222 (2024) **DOI:10.5545/sv-jme.2024.966**
Do, A., Chernyaev, A.	The Double-Sided Upsetting of the End Thickenings on Rod Blanks	70, 5-6, 223-230 (2024) https://dx.doi.org/10.5545/sv-jme.2023.550	cold forging; upsetting; end thickenings; force; material damageability;	Do, A., Chernyaev, A. The double-sided upsetting of the end thickenings on rod blanks. *Stroj Vestn-J Mech E* 70 223-230 (2024) **DOI:10.5545/sv-jme.2023.550**
Giljen, Z., Nedeljković, M., Cheng, Y.	The Influence of Pump-Turbine Specific Speed on Hydraulic Transient Processes	70, 5-6, 231-246 (2024) https://dx.doi.org/10.5545/sv-jme.2023.776	hydraulic transients; pump-turbine; influence of the specific speed; load rejection; working point trajectory; method of characteristics;	Giljen, Z., Nedeljković, M., Cheng, Y. The influence of pump-turbine specific speed on hydraulic transient processes. *Stroj Vestn-J Mech E* 70 231-246 (2024) **DOI:10.5545/sv-jme.2023.776**

Li, F., Li, C., Zhou, J., He, J., Wang, J., Luo, C., Li, S.	Effect of Laser Parameters on Surface Texture of Polyformaldehyde and Parameter Optimization	70, 5-6, 247-258 (2024) https://dx.doi.org/10.5545/sv-jme.2023.787	picosecond laser processing; parameter optimization; polyformaldehyde (POM); grey-Taguchi analysis method; Prediction model;	Li, F., Li, C., Zhou, J., He, J., Wang, J., Luo, C., Li, S. Effect of Laser parameters on surface texture of polyformaldehyde and parameter optimization. *Stroj Vestn-J Mech E* 70 247-258 (2024) **DOI:10.5545/sv-jme.2023.787**
Van, A., Nguyen, T., Bui, H., Dang, X., Nguyen, T.	Multi-response Optimization of GTAW Process Parameters in Terms of Energy Efficiency and Quality	70, 5-6, 259-269 (2024) https://dx.doi.org/10.5545/sv-jme.2023.890	GTAW; heat input; ultimate tensile strength; micro-hardness; radial basis function network;	Van, A., Nguyen, T., Bui, H., Dang, X., Nguyen, T. Multi-response optimization of gtaw process parameters in terms of energy efficiency and quality. *Stroj Vestn-J Mech E* 70 259-269 (2024) **DOI:10.5545/sv-jme.2023.890**
Wilk-Jakubowski, J., Wilk-Jakubowski, G., Loboichenko, V.	Experimental Attempts of Using Modulated and Unmodulated Waves in Low-Frequency Acoustic Wave Flame Extinguishing Technology: A Review of Selected Cases	70, 5-6, 270-281 (2024) https://dx.doi.org/10.5545/sv-jme.2023.893	acoustic flame extinguishing; firefighting systems; deep neural networks; electrical and mechanical engineering; fire extinguisher; flame suppression;	Wilk-Jakubowski, J., Wilk-Jakubowski, G., Loboichenko, V. Experimental attempts of using modulated and unmodulated waves in low-frequency acoustic wave flame extinguishing technology: A review of selected cases. *Stroj Vestn-J Mech E* 70 270-281 (2024) **DOI:10.5545/sv-jme.2023.893**
Povše, A., Skale, S., Vojvodić-Tuma, J.	Evaluation of the Condition of the Bottom of the Tanks for Petroleum Products-Forecast of the Remaining Operating Life	70, 5-6, 282-292 (2024) https://dx.doi.org/10.5545/sv-jme.2023.682	pitting; storage tank bottom; time-dependent reliability; corrosion model;	Povše, A., Skale, S., Vojvodić-Tuma, J. Evaluation of the condition of the bottom of the tanks for petroleum products-forecast of the remaining operating life. *Stroj Vestn-J Mech E* 70 282-292 (2024) **DOI:10.5545/sv-jme.2023.682**
Mu, M., Xie, B., Yang, Y.	Research on Attitude Analysis of Hydraulic Support Based on Column Length	70, 5-6, 293-310 (2024) https://dx.doi.org/10.5545/sv-jme.2024.991	analysis of hydraulic support attitude; simulation analysis; axis pin connection clearance; hydraulic cylinder stiffness;	Mu, M., Xie, B., Yang, Y. Research on attitude analysis of hydraulic support based on column length. *Stroj Vestn-J Mech E* 70 293-310 (2024) **DOI:10.5545/sv-jme.2024.991**
Mlakar, U., Koželj, R., Ristić, A., Stritih, U.	Experimental Testing System for Adsorption Space Heating	70, 3-4, 107-115 (2024) https://dx.doi.org/10.5545/sv-jme.2023.788	sorption heat storage; space heating; water vapour; humid air; zeolite 13X; zeolite NaYBFK;	Mlakar, U., Koželj, R., Ristić, A., Stritih, U. Experimental testing system for adsorption space heating. *Stroj Vestn-J Mech E* 70 107-115 (2024) **DOI:10.5545/sv-jme.2023.788**
Wan, Z., Yu, H., Xiao, Y., Zhao, Z., Lian, Z., Chen, F.	Research on the Adaptability of Packers for Integrated String Fracturing Operations in Low Porosity and Low Permeability Reservoirs	70, 3-4, 116-127 (2024) https://dx.doi.org/10.5545/sv-jme.2023.662	low porosity and low permeability reservoirs; integrated pipe string; packer rubber ring; acid fracturing; finite element simulation;	Wan, Z., Yu, H., Xiao, Y., Zhao, Z., Lian, Z., Chen, F. Research on the adaptability of packers for integrated string fracturing operations in low porosity and low permeability reservoirs. *Stroj Vestn-J Mech E* 70 116-127 (2024) **DOI:10.5545/sv-jme.2023.662**
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Zhang, X.	Transient Flow Characteristics of a Pressure Differential Valve with Different Valve Spool Damping Orifice Structures	70, 3-4, 141-158 (2024) https://dx.doi.org/10.5545/sv-jme.2023.691	aviation engine lubrication system; pressure differential valve; flow impact; transient flow; valve spool damping orifice;	Zhang, X. Transient flow characteristics of a pressure differential valve with different valve spool damping orifice structures. *Stroj Vestn-J Mech E* 70 141-158 (2024) **DOI:10.5545/sv-jme.2023.691**
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Kılavuz, F., Goren Kiral, B.	Design Optimization of Mechanical Valves in Dishwashers Based on the Minimization of Pressure Losses	70, 3-4, 194-208 (2024) https://dx.doi.org/10.5545/sv-jme.2023.768	dishwasher; energy-saving; impeller blade design optimization; statistical analysis; artificial neural network;	Kılavuz, F., Goren Kiral, B. Design optimization of mechanical valves in dishwashers based on the minimization of pressure losses. *Stroj Vestn-J Mech E* 70 194-208 (2024) **DOI:10.5545/sv-jme.2023.768**
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Li, Z., Di, X., Gao, Z., An, Z., Chen, L., Zhang, Y., Lu, S.	Improvement of the Dimensional Accuracy of a Ti-6Al-4V Ripple Disc	70, 1-2, 20-26 (2024) https://dx.doi.org/10.5545/sv-jme.2023.545	incremental sheet forming; electric hot forming; electrically assisted sizing; edge warpage; ripple disc;	Li, Z., Di, X., Gao, Z., An, Z., Chen, L., Zhang, Y., Lu, S. Improvement of the dimensional accuracy of a Ti-6Al-4V ripple disc during electric

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Struzikiewicz, G.	Investigation of the Titanium Alloy Turning Process with Prime A Tools under High-Pressure Cooling Conditions	70, 1-2, 70-79 (2024) https://dx.doi.org/10.5545/sv-jme.2023.718	turning; titanium alloy; cutting forces; chip form; chip breakage index;	Struzikiewicz, G. Investigation of the titanium alloy turning process with prime a tools under high-pressure cooling conditions. *Stroj Vestn-J Mech E* 70 70-79 (2024) **DOI:10.5545/sv-jme.2023.718**
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Adıyaman, O.	Investigation on the Application of Worn Cutting Tool Inserts as Burnishing Tools	70, 1-2, 92-102 (2024) https://dx.doi.org/10.5545/sv-jme.2023.781	deep rolling; ball burnishing; microhardness; tribology; surface roughness;	Adıyaman, O. Investigation on the application of worn cutting tool inserts as burnishing tools. *Stroj Vestn-J Mech E* 70 92-102 (2024) **DOI:10.5545/sv-jme.2023.781**

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Kareepadath Santhosh, D., Pušavec, F., Krajnik, P.	Grinding of Cemented Carbide Using a Vitrified Diamond Pin and Lubricated Liquid Carbon Dioxide	69 (11-12), (2023) 435-443, https://dx.doi.org/10.5545/sv-jme.2023.658	diamond; grinding; cemented carbides; cooling-lubrication; carbon dioxide;	Kareepadath Santhosh, D., Pušavec, F., Krajnik, P. Grinding of cemented carbide using a vitrified diamond pin and lubricated liquid carbon dioxide. *Stroj Vestn-J Mech E*, 69 435-443, (2023) **DOI:10.5545/sv-jme.2023.658**
Ganesan, T., Jayarajan, N.	Aerodynamic Analysis of Mathematically Modelled Propeller for Small UAV Using CFD in Different Temperature Conditions	69 (11-12), (2023) 444-454, https://dx.doi.org/10.5545/sv-jme.2023.601	unmanned aerial vehicle; propeller; computational fluid dynamics; blade element theory; mathematical design;	Ganesan, T., Jayarajan, N. Aerodynamic analysis of mathematically modelled propeller for small UAV using CFD in different temperature conditions. *Stroj Vestn-J Mech E* 69 444-454 (2023) **DOI:10.5545/sv-jme.2023.601**
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Celik, A., Sahin, B., Manay, E., Balin, A.	A Study Using the Hybrid Fuzzy AHP&TOPSIS Method in the Conversion of a LEED-Certified Education Building into a Nearly Zero-Energy Building in a Cold Climate	69 (5-6), (2023) 208-223, https://dx.doi.org/10.5545/sv-jme.2023.529	Green building; nearly zero energy building; energy and cost optimal analysis; fuzzy analytic hierarchy process (FAHP); TOPSIS;	Celik, A., Sahin, B., Manay, E., Balin, A. A study using the hybrid fuzzy AHP&TOPSIS method in the conversion of a LEED-certified education building into a nearly zero-energy building in a cold climate. *Stroj Vestn-J Mech E* 69 208-223 (2023) **DOI:10.5545/sv-jme.2023.529**
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