

1. [Design Method and Teeth Contact Simulation of PEEK Involute Spline Couplings](#) (Open Access)

Xue, Xiangzhen (School of Mechanical and Electrical Engineering, Shaanxi University of Science and Technology, Xi'an; 710021, China); Yu, Wei; Lin, Kuan; Zhang, Ning; Xiao, Li; Jiang, Yiqiang **Source:** *Materials*, v 17, n 1, January 2024

Open Access type(s): All Open Access, Gold, Green

Database: Compendex

Data Provider: Engineering Village

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2. [Experimental investigation of electrochemical machining for involute internal spline using cathode working teeth sheet with circumferential vibration](#)

Huang, Yi (Department of Propulsion Engineering, Xiamen University, Xiamen; 361005, China); Fang, Cong; Yang, Fan; Gong, Senlin; Wang, Xi **Source:** *Precision Engineering*, v 88, p 905-914, June 2024

Database: Compendex

Data Provider: Engineering Village

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3. [Damage mechanisms of spline teeth of friction plates under non-uniform impact](#)

Duan, Lintao (State Key Laboratory of Mechanical Transmission, Chongqing University, Chongqing; 400044, China); Ning, Keyan; Wang, Liming; Shao, Yimin **Source:** *Engineering Fracture Mechanics*, v 296, February 9, 2024

Database: Compendex

Data Provider: Engineering Village

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4. [Fractal theory-based contact analysis of surface microtextured involute spline coupling](#)

Xue, Xiangzhen (School of Mechanical and Electrical Engineering, Shaanxi University of Science and Technology, Xi'an; 710021, China); Lin, Kuan; Yu, Wei; Wu, Zhaopeng; Shen, Mingjie; Xue, Tengfei **Source:** *Tribology International*, v 200, December 2024

Database: Compendex

Data Provider: Engineering Village

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5. [Adaptive isogeometric gear contact analysis: Geometry generation, truncated hierarchical B-Spline refinement and validation](#)

Karampatzakis, Christos (School of Mechanical Engineering, Aristotle University of Thessaloniki, University Campus, Thessaloniki; 54124, Greece); Mantzafaris, Angelos; Provatidis, Christopher; Mihailidis, Athanassios **Source:** *Computers and Structures*, v 305, December 1, 2024

Database: Compendex

Data Provider: Engineering Village

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6. [Analysis of the effect of circular spline tooth profile parameters on flexspline gear stress based on response surface methodology](#) (Open Access)

Ma, Honglie (Beijing Key Laboratory of Advanced Manufacturing Technology, Beijing University of Technology, Beijing; 100124, China); Zhang, Tao; Yang, Congbin **Source:** *Journal of Physics: Conference Series*, v 2819, n 1, 2024

Open Access type(s): All Open Access, Gold

Database: Compendex

Data Provider: Engineering Village

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[7. Manufacturing design of plain milling technology of spline shaft by formed disc-type milling cutter](#) (Open Access)

Bodzás, Sándor (Department of Mechanical Engineering, University of Debrecen, Debrecen, Hungary) **Source:** *Journal of Physics: Conference Series*, v 2848, n 1, 2024

Open Access type(s): All Open Access, Gold

Database: Compendex

Data Provider: Engineering Village

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[8. Dynamic characteristics of rotor system with parallel and angular misaligned involute spline coupling](#)

Miao, Xueyang (Key Laboratory of Structure and Thermal Protection for High-Speed Aircraft, Ministry of Education, Southeast University, Nanjing; 210096, China); Jiang, Dong; Ai, Xing; Xu, Fujian; Zhang, Dahai; Fei, Qingguo **Source:** *Meccanica*, v 59, n 7, p 1061-1085, July 2024

Database: Compendex

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[9. Prediction and optimisation for surface roughness distribution in external spline shaping based on micro-element method](#)

Ma, Xiaofan (School of Aerospace Engineering, Xiamen University, Xiamen, China); Yao, Bin; Liu, Wanshan; Cai, Zhiqin; Li, Zhengminqing; Li, Zhisheng **Source:** *Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science*, v 238, n 6, p 2044-2058, March 2024

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[10. Study on Contact Characteristics of Surface Micro-Textured Involute Spline Pair Based on Fractal Theory](#)

Xue, Xiangzhen (School of Mechanical and Electrical Engineering, Shaanxi University of Science and Technology, Xi'an; 710021, China); Lin, Kuan; Yu, Wei; Wu, Zhaopeng; Shen, Mingjie; Xue, Tengfei **Source:** *SSRN*, March 5, 2024

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[11. Nonlinear characteristics of floating involute spline coupling in a hydraulic disc brake with inner hub rim crack propagation](#)

Yue, Kun (The State Key Laboratory of Mechanical Transmission, Chongqing University, Chongqing; 400044, China); Wang, Liming; Lan, Hai; Yu, Wennian; Shao, Yimin; Chen, Zaigang **Source:** *International Journal of Non-Linear Mechanics*, v 160, April 2024

Database: Compendex

Data Provider: Engineering Village

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[12. Kinematic Characteristics Analysis of Gear Teeth in Harmonic Drive](#)

Zhou, Guocheng (School of Mechanical Engineering, Tianjin University, Tianjin; 300354, China); Xie, Ran; Liu, Heyu; Yang, Yuhu **Source:** *Mechanisms and Machine Science*, v 149, p 27-34, 2024, *Advances in Mechanism and Machine Science - Proceedings of the 16th IFToMM World Congress 2023—Volume 3*

Database: Compendex

Data Provider: Engineering Village

Compilation and indexing terms, Copyright 2026 Elsevier Inc.

13. [Study on Spline Stress of Separator Plates in a Wet Multi-Plate Clutch](#) (Open Access)

Ma, Biao (School of Mechanical Engineering, Beijing Institute of Technology, Beijing; 100081, China); Chen, Xiaobo; Zheng, Changsong; Yu, Liang; Zhao, Qin; Lu, Weichen **Source:** *Materials*, v 17, n 12, June 2024

Open Access type(s): All Open Access, Gold, Green

Database: Compendex

Data Provider: Engineering Village

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14. [Implementing approach of rolling process for inner spline sleeve with medium diameter: radial-feed rolling and through-feed rolling](#)

Zhang, Da-Wei (Xi'an Key Laboratory of Intelligent Equipment and Control, School of Mechanical Engineering, Xi'an Jiaotong University, No. 28 Xianning West Road, Shaanxi, Xi'an; 710049, China); Liu, Qiu-Tong; Li, Xu-Cheng; Chen, Lin-Quan; Yang, Guang-Can; Zhang, Qi; Zhao, Sheng-Dun **Source:** *International Journal of Advanced Manufacturing Technology*, v 130, n 5-6, p 2457-2473, January 2024

Database: Compendex

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15. [Purely FEM-Based Tooth Profile Design of Circular Spline for Double-Circular-Arc Harmonic Drive](#)

Yang, Jiawen (Tsinghua University, Department of Mechanical Engineering, Beijing, China); Yan, Shaoze **Source:** *2024 IEEE 8th International Conference on Vision, Image and Signal Processing, ICVISP 2024*, 2024, *2024 IEEE 8th International Conference on Vision, Image and Signal Processing, ICVISP 2024*

Database: Compendex

Data Provider: Engineering Village

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16. [Adaptive Point Learning with Uncertainty Quantification to Generate Margin Lines on Prepared Teeth](#) (Open Access)

Alsheghri, Ammar (Mechanical Engineering Department, King Fahd University of Petroleum and Minerals (KFUPM), Dhahran; 31261, Saudi Arabia); Ladini, Yoan; Hosseinimanesh, Golriz; Chafi, Imane; Keren, Julia; Cheriet, Farida; Guibault, François

Source: *Applied Sciences (Switzerland)*, v 14, n 20, October 2024

Open Access type(s): All Open Access, Gold, Green

Database: Compendex

Data Provider: Engineering Village

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17. [Adaptive Point Learning with Uncertainty Quantification to Generate Margin Lines on Prepared Teeth](#)

Alsheghri, Ammar (Mechanical Engineering Department, King Fahd University of Petroleum and Minerals (KFUPM), Dhahran; 31261, Saudi Arabia); Ladini, Yoan; Hosseinimanesh, Golriz; Chafi, Imane; Keren, Julia; Cheriet, Farida; Guibault, François

Source: *SSRN*, August 27, 2024

Database: Compendex

Data Provider: Engineering Village

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18. [A novel harmonic drive with the full conjugate tooth profile](#)

Xie, Ran (School of Mechanical Engineering, Tianjin University, Tianjin, China); Yang, Yuhu; Zhou, Guocheng; Gao, Ben; Jiao, Yunlei; Yu, Ruijiang **Source:** *Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science*, v 238, n 19, p 9748-9760, October 2024

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19. Design of Harmonic Drive with Double-Circular-Arc Tooth Profile

Xie, Ran (School of Mechanical Engineering, Tianjin University, Tianjin; 300350, China); Zhou, Guocheng; Liu, Heyu; He, Qu; Yang, Yuhu; Shen, Zhaoguang **Source:** *Mechanisms and Machine Science*, v 149, p 94-102, 2024, *Advances in Mechanism and Machine Science - Proceedings of the 16th IFToMM World Congress 2023—Volume 3*

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20. Dynamic modeling and analysis of the supercritical tail drive system of a helicopter considering the mounting platform deformation

Zhang, Chao (National Key Laboratory of Science and Technology on Helicopter Transmission, Nanjing University of Aeronautics and Astronautics, Nanjing; 210016, China); Zhu, Rupeng; Chen, Weifang; Wang, Dan; Nong, Su; Mao, Sunquan **Source:** *Nonlinear Dynamics*, v 112, n 11, p 9063-9094, June 2024

Database: Compendex

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21. Transmission error modeling and analysis of herringbone gear drive based on the measured manufacturing errors

Zhang, Chu (Naval Architecture and Ocean Engineering College, Dalian Maritime University, Dalian; 116026, China); Hu, Yunbo; Dong, Huimin; Wang, Changqing **Source:** *Transactions of the Canadian Society for Mechanical Engineering*, v 49, n 1, p 13-23, March 2024

Database: Compendex

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22. Dynamic Characteristics of a Supercritical Helicopter Tail Transmission System with Self-Excited Vibration and Rubbing Impact

Zhu, Haimin (School of Automotive Engineering, Changshu Institute of Technology, Changshu; 215500, China); Hu, Shunan; Zhang, Li; Li, Miaomiao; Zhu, Rupeng **Source:** *International Journal of Structural Stability and Dynamics*, v 24, n 17, September 15, 2024

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23. Two-level Design Optimization of AC Machines with DC Stator Excitation and Minimal Torque Ripple using Reluctance Rotor Profile Shaping

Mohammadi, Ali (University of Kentucky, Spark Laboratory, Stanley and Karen Pigman College of Engineering, Lexington; KY, United States); Badewa, Oluwaseun A.; Chulaee, Yaser; Ionel, Dan M. **Source:** *2024 IEEE Energy Conversion Congress and Exposition, ECCE 2024 - Proceedings*, p 5174-5179, 2024, *2024 IEEE Energy Conversion Congress and Exposition, ECCE 2024 - Proceedings*

Database: Compendex

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24. Development of an energy-autonomous eddy current sensor system for in-situ component monitoring

Gansel, R. (Institut für Werkstoffkunde (Materials Science), Leibniz Universität Hannover, Garbsen; 30823, Germany); Zwoch, S.; Quanz, M.; Schäfer, G.; Lohrengel, A.; Maier, H.J.; Barton, S. **Source:** *e-Journal of Nondestructive Testing*, v 29, n 6, 2024

Database: Compendex

Data Provider: Engineering Village

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[**25. Numerical study on dynamic response of double drive shafts of dual-coupled axial piston pump under various load ratios**](#)

Xiao, Yuanjiang (College of Mechanical and Electronic Engineering, Shandong University of Science and Technology, Qingdao; 266590, China); Sun, Zhiyuan; Sun, Gaozuo; Wan, Lirong **Source:** *Engineering Failure Analysis*, v 163, September 2024

Database: Compendex

Data Provider: Engineering Village

Compilation and indexing terms, Copyright 2026 Elsevier Inc.

[**26. Study of the sealing performance of a high-speed deep groove mechanical seal thermodynamic lubrication model**](#)

Zhang, Weizheng (School of Petrochemical Engineering, Lanzhou University of Science and Technology, Lanzhou, China); Han, Dongmin **Source:** *Industrial Lubrication and Tribology*, v 76, n 7-8, p 991-1002, October 28, 2024

Database: Compendex

Data Provider: Engineering Village

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[**27. Thermoelastohydrodynamic Mixed Lubrication of Combined Rod Seals Operating at High Pressures and Speeds: Mathematical Modeling and Numerical Analysis**](#)

Wang, Bingqing (College of Mechanical Engineering, Zhejiang University of Technology, Hangzhou; 310023, China); Li, Xiaoxuan; Peng, Xudong; Li, Yuntang; Chen, Yuan; Jin, Jie **Source:** *Journal of Tribology*, v 146, n 4, April 1, 2024

Database: Compendex

Data Provider: Engineering Village

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[**28. INVESTIGATION INTO THE TRIBOLOGICAL CHARACTERISTICS OF BIDIRECTIONAL SEALS BASED ON THE MIXED LUBRICATION MODEL**](#)

Peng, Chao (Sun Yat-sen University, Zhuhai, China); Jin, Sibao; Zhang, Xin; Yu, Hang; Ouyang, Xiaoping **Source:** *IET Conference Proceedings*, v 2024, n 13, p 2524-2531, 2024, *CSAA/IET International Conference on Aircraft Utility Systems, AUS 2024*

Database: Compendex

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[**29. Recent Developments in High-Speed Sealing Applications with Hydrodynamic Laser-Textured Mechanical Seals for Reusable Rocket Engine Turbopumps**](#)

Tokunaga, Y. (Eagle Industry co ltd., 1500, Katayanagi, Sakado-shi, Saitama; 350-0285, Japan); Imura, T.; Kasahara, H.; Tazawa, A.; Kakudo, H.; Takada, S. **Source:** *AIAA SciTech Forum and Exposition, 2024, 2024, AIAA SciTech Forum and Exposition, 2024*

Database: Compendex

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[**30. Lubrication Heating Behavior of Elliptical Groove Face Seals Under Multi-Point Conditions**](#)

Yang, Jing (College of Mechanical Engineering, Zhejiang University of Technology, Hangzhou; 310032, China); Bai, Shaoxian **Source:** *SSRN*, February 14, 2024

Database: Compendex

Data Provider: Engineering Village

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31. [Study on the performance of reciprocating seals under the coupling effect of elastohydrodynamic lubrication and rubber wear](#) (Open Access)

Zhang, Yi (School of Mechanical Engineering, Southwest Petroleum University, Xindu Avenue 8#, Xindu District Sichuan, Chengdu; 610500, China); Wei, Fu; Lin, Shuai; Sun, Xuebin; Liu, Ling **Source:** *Engineering Research Express*, v 6, n 1, March 2024
Open Access type(s): All Open Access, Hybrid Gold

Database: Compendex

Data Provider: Engineering Village

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32. [A Numerical Modeling and Simulation Approach for the Dynamic Analysis of Non-Contacting Mechanical Face Seals](#)

Yanab, Bo (School of Mechanical Engineering, Ningxia University, Ningxia, Yinchuan; 750021, China); He, Qiang; Huang, Weifeng; Peng, Zhike; Hu, Songtao **Source:** *Proceedings - 2024 4th International Conference on Robotics, Automation and Intelligent Control, ICRAIC 2024*, p 76-82, 2024, *Proceedings - 2024 4th International Conference on Robotics, Automation and Intelligent Control, ICRAIC 2024*

Database: Compendex

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33. [Thermal Imaging and Numerical Lubrication Analysis of Local Temperatures in Structured Peek Face Seals Considering Variable Cavitation Pressure and Viscosity](#)

Bulut, Dilek (Institute of Machine Design and Tribology, University of Hannover, Garbsen; 30823, Germany); Bader, Norbert **Source:** *SSRN*, June 2, 2024

Database: Compendex

Data Provider: Engineering Village

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34. [Deformation mechanism and dimension optimization methods of PTFE oil seals for shafts in a wide temperature range cycle](#)

Xing, Yangtao (School of Mechanical Engineering, Yanshan University, Qinhuangdao, China); Zhai, Fugang; Li, Shengnan; Gui, Peng **Source:** *Industrial Lubrication and Tribology*, v 76, n 1, p 91-101, January 16, 2024

Database: Compendex

Data Provider: Engineering Village

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35. [Rubber: Fluorocarbon \(FKM\) High Temperature/Fluid Resistant Low Compression Set/ 85 to 95 Hardness For Seals In Fuel Systems and Specific Engine Oil Systems](#)

Source: *SAE Technical Standard*, 2024

Versions: 7

Status: Active - Latest, revised

Database: Compendex

Data Provider: Engineering Village

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36. [Study on working mechanism and performance of deep groove seal at high temperature and high speed in mixed lubrication](#)

Liang, Zhurong (State Key Laboratory of Tribology in Advanced Equipment, Tsinghua University, Beijing; 100084, China); Liu, Ying; Hui, Yuxiang **Source:** *Tribology International*, v 194, June 2024

Database: Compendex

Data Provider: Engineering Village

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37. [Tribological properties of low-temperature time-dependent pretreated graphite for mechanical seal pairs in high-speed turbopump](#) (Open Access)

Zhao, Yangyang (School of Mechano-Electronic Engineering, Xidian University, Xi'an; 710071, China); Zhang, Guoyuan; Wang, Junqian; Wang, He; Zhao, Weigang; Zeng, Qunfeng **Source:** *Friction*, v 12, n 2, p 305-318, February 2024

Open Access type(s): All Open Access, Gold, Green

Database: Compendex

Data Provider: Engineering Village

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38. [The guide-aggregation effect of microgrooves on tribological properties of mechanical seals](#) (Open Access)

Chen, Xiaoya (Anhui University of Technology, Ma'anshan, China); Shi, Liping; Li, Meng **Source:** *Journal of Physics: Conference Series*, v 2775, n 1, 2024

Open Access type(s): All Open Access, Gold

Database: Compendex

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39. [System-Based Monitoring Approach for Mechanical Seals Using Excited Mechanical Resonances by an Electromagnetic Acoustic Transducer](#)

Siegl, A. (Institute of Electrical Measurement and Sensor Systems, Graz University of Technology, Inffeldgasse 33/I, Graz; 8010, Austria); Leithner, S.; Schweighofer, B.; Wegleiter, H. **Source:** *Conference Record - IEEE Instrumentation and Measurement Technology Conference, 2024, I2MTC 2024 - Instrumentation and Measurement Technology Conference: Instrumentation and Measurement for Sustainable Future, Proceedings*

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40. [Experimental Wear Analysis on Mechanical Seals for Concrete Mixers](#)

Logozzo, Silvia (Università degli Studi di Perugia, Via G. Duranti, Perugia, Italy); Valigi, Maria Cristina **Source:** *Mechanisms and Machine Science*, v 160 MMS, p 3-12, 2024, *Proceedings of ITS-IFTToMM 2024 - 5 International Tribology Symposium of IFTToMM*

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41. [A Tribological Study of Antimony-Impregnated Graphite for Steam Mechanical Seals](#)

Madhavan, Lathesh (Research and Development Department, Forbes Marshall Pvt. Ltd., Pune; 411034, India); Waikar, Rahul; Deshpande, Abhijeet **Source:** *SSRN*, June 4, 2024

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Data Provider: Engineering Village

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42. [Numerical simulation of the lubrication characteristics of bionic surface textures on mechanical sealing rings](#) (Open Access)

Chen, Hao (School of Mechanical Engineering, Southeast University, Nanjing; 211189, China); Yan, Zhen; Dai, Wan; Zheng, Zhu; Bie, Yufeng; Chen, Yunfei **Source:** *Journal of Physics: Conference Series*, v 2740, n 1, 2024

Open Access type(s): All Open Access, Gold

Database: Compendex

Data Provider: Engineering Village

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43. Analysis of the coupling mechanism of the dynamic response and mechanical-thermal deformation in mechanical seals

Ran, Yao (State Key Laboratory of Tribology in Advanced Equipment, Tsinghua University, Beijing; 100084, China); He, Qiang; Huang, Weifeng; Liu, Ying; Wang, Yuming **Source:** *Tribology International*, v 192, April 2024

Database: Compendex

Data Provider: Engineering Village

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44. An improved mixed lubrication model for revealing the mechanism of high speed and frictional heat on sealing performance

Chen, Shengshan (State Key Laboratory of Tribology in Advanced Equipment, Tsinghua University, Beijing; 100084, China); Guo, Fei; Wang, Wentao; Wang, Yuming **Source:** *Tribology International*, v 191, March 2024

Database: Compendex

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45. Friction Behavior of Conventional Mechanical Seals in Different Regimes

Behadef, Rachid (LMT Laboratory, Faculty of Science and Technology, Jijel's University, Jijel, Algeria); Gueraiche, Larbi **Source:** *Journal of Bio- and Tribo-Corrosion*, v 10, n 1, March 2024

Database: Compendex

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46. Performance of Gas-Liquid Upstream Pumping Spiral Groove Mechanical Face Seals (Open Access)

Zhang, Baoyu (School of Intelligent Manufacturing, Jiangsu Food & Pharmaceutical Science College, Jiangsu province, Huaian; 223003, China); Wang, Weibing; Sun, Tiebo; Li, Ping **Source:** *International Journal of Fluid Machinery and Systems*, v 17, n 1, p 57-68, 2024

Open Access type(s): All Open Access, Gold

Database: Compendex

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47. An Experimental Procedure for Determining the Equivalent Clearance for Cylinder Piston Seals of a Low-Speed Long Stroke Stage in Dynamic Formulation

Kobilskiy, R.E. (Omsk State Technical University, Omsk; 644050, Russia); Busarov, S.S. **Source:** *Theoretical Foundations of Chemical Engineering*, v 58, n 4, p 1386-1391, August 2024

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48. Elastomer: Fluorosilicone Rubber (FVMQ) Fuel and Oil Resistant 55 - 65 Durometer Type 'A' Hardness For Products in Fuel Systems / Lubrication Oils

Source: SAE Technical Standard, 2024

Versions: 9

Status: Active - Latest, revised

Database: Compendex

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49. [Study on expansion characteristics of Al–Al₂O₃ composite seals for intermediate-temperature solid oxide fuel cell](#) (Open Access)

Xu, Shanping (School of Automobile and Traffic Engineering, Jiangsu University of Technology, Jiangsu, Changzhou, China); Wang, Xiaochun; Kang, Jie; Wang, Wei; Ding, Yun; Zhao, Xuepeng; Wang, Yaocheng; Li, Li **Source:** *International Journal of Applied Ceramic Technology*, v 21, n 6, p 4091-4099, November/December 2024

Open Access type(s): All Open Access, Bronze

Database: Compendex

Data Provider: Engineering Village

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Zhang, Enbo (State Key Laboratory of Multiphase Flow in Power Engineering, Xi'an Jiaotong University, Xi'an; 710049, China); Li, Yuzhe; Lai, Zitian; Bai, Bofeng **Source:** *Physics of Fluids*, v 36, n 3, March 1, 2024

Open Access type(s): All Open Access, Bronze

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51. [An Experimental Investigation Replicating the Surface Behavior of Ground Steel Gears in Mixed Lubrication Using Twin-Disk Testing Part 2: Micropitting](#) (Open Access)

Britton, W.M. (BMT Limited, Bath, United Kingdom); Clarke, A.; Evans, H.P. **Source:** *Tribology Transactions*, v 67, n 6, p 1084-1101, 2024

Open Access type(s): All Open Access, Hybrid Gold, Green

Database: Compendex

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52. [Gear contact fatigue prediction under mixed elastohydrodynamic lubrication with ellipsoidal asperity rough surface: Experimental and numerical investigation](#)

Li, Xin (State Key Laboratory of Precision Manufacturing for Extreme Service Performance, College of Mechanical and Electrical Engineering, Central South University, Changsha; 410083, China); Tang, Jinyuan; Shao, Wen; Zhang, Ding; Chen, Jiling; Zhao, Jiuyue; You, Shengyu; Wen, Yuqin **Source:** *Engineering Fracture Mechanics*, v 307, August 22, 2024

Database: Compendex

Data Provider: Engineering Village

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53. [Effects of manufacturing and installation factors on the initiation and propagation characteristics of bending fatigue crack in spur gear](#)

Pang, Yu (College of Automation Engineering, Nanjing University of Aeronautics and Astronautics, Nanjing, China); Wang, Youren **Source:** *15th Global Reliability and Prognostics and Health Management Conference, PHM-Beijing 2024*, 2024, *15th Global Reliability and Prognostics and Health Management Conference, PHM-Beijing 2024*

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54. [Full-Scale Gear Tooth Bending Fatigue Tests Obtained Early in the Development of a Rotorcraft Transmission](#)

Gmirya, Yuriy (Sikorsky, Lockheed Martin Company, Stratford; CT, United States); Palcic, Peter X.; Binney, Dave; Hu, Wei; Carter, Erin **Source:** *Journal of the American Helicopter Society*, v 69, n 4, October 2024

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55. Method for Root Bending Fatigue Life Prediction in Differential Gears and Validation with Hardware Tests

Dejack, Michael A. (AVL Mobility Technologies Inc., United States); Tichy, Richard **Source:** *SAE Technical Papers*, April 9, 2024, *SAE World Congress Experience, WCX 2024*

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Chen, Taimin (State Key Laboratory of Mechanical Transmission for Advanced Equipment, Chongqing University, Chongqing; 400044, China); Zhu, Caichao; Chen, Jinxiao; Liu, Huaiju **Source:** *Tribology International*, v 196, August 2024

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57. Thermoelastoplastic hydrodynamic lubrication contact analysis of three dimensional rough tooth surface considering micro-scale effect and thermal effect

You, Shengyu (State Key Laboratory of High Performance Complex Manufacturing, Central South University, Hunan, Changsha; 410083, China); Tang, Jinyuan **Source:** *Tribology International*, v 191, March 2024

Database: Compendex

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58. The effect of fine particle peening on aviation gear performance, part II: Rolling contact fatigue (Open Access)

Zhang, Boyu (State Key Laboratory of Mechanical Transmission for Advanced Equipment, Chongqing University, Chongqing, China); Liu, Huaiju; He, Yongyong; Guagliano, Mario **Source:** *Fatigue and Fracture of Engineering Materials and Structures*, v 47, n 8, p 2988-2999, August 2024

Open Access type(s): All Open Access, Bronze

Database: Compendex

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59. Experimental Study on Gear Materials Contact Fatigue Resistance of Seeker Coordinator

Yang, Xin'Gang (School of Mechanical and Precision Instrument Engineering, Xi'an University of Technology, Xi'an, China); Yang, Shuo; Shu, Botong; Wang, Lei; Liu, Hongyan; Shi, Enxiu **Source:** *2024 3rd International Conference on Mechanical Engineering and Power Engineering, MEPE 2024*, p 92-96, 2024, *2024 3rd International Conference on Mechanical Engineering and Power Engineering, MEPE 2024*

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60. A Strategy for Contact Fatigue Life Prediction of Polymer Gears Via an Experimental-Simulated Hybrid Data-Driven Model

Lu, Zehua (State Key Laboratory of Mechanical Transmission for Advanced Equipment, Chongqing University, Chongqing; 400044, China); Liu, Huaiju; Wei, Peitang; Zorko, Damijan **Source:** *SSRN*, February 22, 2024

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Chen, Jinxiao (State Key Laboratory of Mechanical Transmission for Advanced Equipment, Chongqing University, Chongqing, China); Zhu, Caichao; Wei, Peitang; Zeng, Ping; Wang, Biyao; Chen, Taimin; Liu, Huaiju **Source:** *Tribology Transactions*, v 67, n 2, p 280-293, 2024

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Pan, Ling (School of Mechanical Engineering and Automation, Fuzhou University, Fuzhou, China); Yin, Zhiqiang; Lin, Bin; Zeng, Yi; Zhang, Jun **Source:** *Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology*, v 238, n 9, p 1121-1137, September 2024

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Luu, Trong-Thuan (School of Mechanical Engineering, Hanoi University of Science and Technology, 01 Dai Co Viet Rd., Hanoi City, Viet Nam); Tran, Thi Thanh-Hai; Wu, Yu-Ren **Source:** *Mechanism and Machine Theory*, v 199, September 2024

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Moriwaki, Ichiro (Gear Tech One, 28-1048 Kohata Hirao, Kyoto, Uji; 611-0002, Japan); Ueda, Akio; Koide, Takao **Source:** *Journal of Advanced Mechanical Design, Systems and Manufacturing*, v 18, n 8, 2024

Open Access type(s): All Open Access, Gold

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Zheng, Xiqing (Key Laboratory of Vehicle Advanced Manufacturing, Measuring and Control Technology (Ministry of Education), Beijing Jiaotong University, Beijing; 100044, China); Lan, Huiqing **Source:** *Thermal Science and Engineering Progress*, v 52, July 2024

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Lima, Bruno (Aeronautics Institute of Technology, Praça Marechal Eduardo Gomes, 50, São José dos Campos; 12228-900, Brazil); Rego, Ronnie **Source:** *International Journal of Fatigue*, v 180, March 2024

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Sutar, Sanjay S. (Polymer Composites Laboratory, Department of Mechanical Engineering, National Institute of Technology Karnataka, Surathkal, Mangalore; 575025, India); Kumar, G. C. Mohan; Doddamani, Mrityunjay **Source:** *International Journal on Interactive Design and Manufacturing*, v 18, n 7, p 4363-4382, September 2024

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Zhang, Jingdong (School of Intelligent Manufacturing, Panzhihua University, Sichuan, Panzhihua, China); Zheng, Bin **Source:** *Proceedings of SPIE - The International Society for Optical Engineering*, v 13420, 2024, *Third International Conference on New Materials, Machinery, and Vehicle Engineering, NMMVE 2024*

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Sugunesh, A.P. (Department of Mechanical Engineering, National Institute of Technology Puducherry, Puducherry, Karaikal, India); Johnney Mertens, A. **Source:** *Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science*, v 238, n 2, p 586-597, January 2024

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Zbončák, Radek (VÚTS, a.s., Liberec, Czech Republic); Ondrášek, Jiří **Source:** *Mechanisms and Machine Science*, v 163 MMS, p 126-133, 2024, *Advances in Italian Mechanism Science - Proceedings of the 5th International Conference of IFToMM Italy - Volume 1*

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71. [Meshing equation, tooth contact analysis, stress analysis and manufacture of a point-contact gear formed by double-arc milling cutter](#)

Xiao, Xiaoping (School of Mechanical and Energy Engineering, Guangdong Ocean University, Yangjiang, China); Chen, Zhen; Chen, Yangzhi; Shao, Yanjie; Zheng, Maoxi **Source:** *Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science*, v 238, n 15, p 7870-7882, August 2024

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Zhang, Jian (School of Intelligent Manufacturing, Panzhihua University, Sichuan, Panzhihua; 617000, China); Yang, Xue; Qi, Xuemei; Yang, Guangchun **Source:** *Proceedings of SPIE - The International Society for Optical Engineering*, v 13163, 2024, *Fourth International Conference on Mechanical, Electronics, and Electrical and Automation Control, METMS 2024*

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[73. Computerised design, simulation of meshing and stress analysis of bionic logarithmic spiral spur gear drives](#)

Mo, Jingyu (School of Marine Equipment and Mechanical Engineering, Jimei University, Xiamen, China); Yuan, Kong; Wang, Rui; Fu, Shengping; Luo, Yaou; Li, Yandong **Source:** *Journal of Engineering Design*, v 35, n 7, p 874-900, 2024

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Liu, Wenzheng (College of Mechanical and Electrical Engineering, Nanjing University of Aeronautics and Astronautics, Nanjing, China); Zhu, Rupeng; Zhou, Wenguang; Wang, Jingjing **Source:** *Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science*, v 238, n 21, p 10490-10501, November 2024

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[75. Spur gear tooth root stress analysis by a 3D flexible multibody approach and a full-FE contact-based formulation](#) (Open Access)

Mouton, Valentin (École centrale de Lyon, CNRS, ENTPE, Laboratoire de tribologie et dynamique des systèmes, UMR 5513, 36 avenue Guy de Collongue, Écully; 69130, France); Rigaud, Emmanuel; Chevrel-Fraux, Cyril; Casanova, Pierre; Perret-Liaudet, Joël **Source:** *Finite Elements in Analysis and Design*, v 242, December 2024

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[76. Analysis of the tooth-root stress of external spur gears with high effective contact ratio](#) (Open Access)

Pedrero, José I. (UNED, Departamento de Mecánica, Juan del Rosal 12, Madrid; 28040, Spain); Sánchez, Miryam B.; Pleguezuelos, Miguel; Fuentes-Aznar, Alfonso **Source:** *Mechanism and Machine Theory*, v 203, November 15, 2024

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[77. Enhancing performance of an 8-speed Lathe machine gearbox assembly: a study on static structural analysis and modal analysis](#)

Arunachalam, S. (Department of Production Engineering, PSG College of Technology, Coimbatore; 641004, India); Muthuram, N.; Kanchan, Brajesh Kumar; Senthilkumar, M. **Source:** *International Journal on Interactive Design and Manufacturing*, v 18, n 4, p 2491-2502, May 2024

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[78. Efficiency and Losses of Bi-Directional, Non-Back-Drivable Roller Clutches](#)

De Smedt, Nathan (Brussels Human Robotics Research Center (BruBotics), Vrije Universiteit Brussel, Pleinlaan 2, Elsene, Brussels; 1050, Belgium); Khorasani, Amin; Verstraten, Tom **Source:** *SSRN*, September 12, 2024

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Chawla, Dinesh (Manav Rachna International Institute of Research and Studies, Mechanical Engineering Department, Faridabad, India); Bhatia, Sunny; Vinay; Thomas, Dain D.; Majeed, Akash **Source:** *Proceedings - 2024 3rd International Conference on Computational Modelling, Simulation and Optimization, ICCMSO 2024*, p 336-343, 2024, *Proceedings - 2024 3rd International Conference on Computational Modelling, Simulation and Optimization, ICCMSO 2024*

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Park, Jung-Ho (Department of Biosystems Engineering, Seoul National University, 1 Gwanak-ro, Gwanak-gu, Seoul; 08826, Korea, Republic of); Chung, Woo-Jin; Park, Young-Jun; Kim, Heung-Sub; Seo, Jin Beom; Park, Jong Sang **Source:** *International Journal of Automotive Technology*, v 25, n 2, p 279-293, April 2024

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Panda, S. (Department of Mechanical Engineering, VSSUT, Odisha, Burla, India); Alam, Jawaz **Source:** *Lecture Notes in Networks and Systems*, v 728 LNNS, p 221-229, 2024, *Intelligent Systems - Proceedings of 3rd International Conference on Machine Learning, IoT and Big Data ICMIB 2023*

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Choudhari, Dilip S. (Department of Mechanical Engineering, KJEI Trinity College of Engineering & Research, Pune, Savitribai Phule Pune University, Maharashtra, Pune; 411048, India); Kakhandki, Vyasraj J.; Malwe, Prateek D.; Panchal, Hitesh; Mevada, Dinesh; Jaber, Mustafa Musa; Oza, Ankit D. **Source:** *International Journal on Interactive Design and Manufacturing*, v 18, n 10, p 7115-7126, December 2024

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Lü, Hongzhan (College of Mechanical Engineering, Donghua University, Shanghai; 201620, China); Hou, Zhiyong; Wang, Junzheng; Wang, Yuda **Source:** *Journal of Southeast University (English Edition)*, v 40, n 1, p 68-79, March 2024

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Wu, Hao (School of Mechanical Engineering, Southwest Jiaotong University, Chengdu; 610031, China); Wei, Jing; Wu, Pingbo; Li, Fansong; Qi, Yayun **Source:** *Railway Engineering Science*, v 32, n 4, p 461-479, December 2024

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85. [Strength and contact modal analysis of aerospace bevel gears](#)

Li, Fajia (School of Mechanical Engineering, University of Jinan, Shandong, Jinan, China); Wang, Enming; Tang, Xin; Shen, Rui; Liu, Haining; Wu, Ziheng **Source:** *Proceedings of SPIE - The International Society for Optical Engineering*, v 13163, 2024, *Fourth International Conference on Mechanical, Electronics, and Electrical and Automation Control, METMS 2024*

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86. [CFD-FEM Analysis for Functionality Prediction of Multi-Gear Pumps](#) (Open Access)

Zharkevich, Olga (Department of Technological Equipment, Mechanical Engineering and Standardization, Abylkas Saginov Karaganda Technical University, Karaganda; 100027, Kazakhstan); Reshetnikova, Olga; Nikonova, Tatyana; Berg, Alexandra; Berg, Andrey; Zhunuspekov, Darkhan; Nurzhanova, Oxana **Source:** *Designs*, v 8, n 6, December 2024

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Wang, Cheng (Mechanical College, Shanghai Dianji University, Shanghai; 201306, China) **Source:** *Renewable Energy*, v 221, February 2024

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Zorko, Damijan (RD Motion, d.o.o., Vojkova cesta 63, Ljubljana; 1000, Slovenia); Kalister, Rok; Černe, Borut **Source:** *American Gear Manufacturers Association Fall Technical Meeting 2024, FTM 2024, 2024, American Gear Manufacturers Association Fall Technical Meeting 2024, FTM 2024*

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Pagliari, Lorenzo (Free University of Bozen-Bolzano, Italy); Fraccaroli, Lorenzo; Maccioni, Lorenzo; Concli, Franco **Source:** *American Gear Manufacturers Association Fall Technical Meeting 2024, FTM 2024, 2024, American Gear Manufacturers Association Fall Technical Meeting 2024, FTM 2024*

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Shao, Nan (Beijing Institute of Technology, School of Mechanical Engineering, 5 South Zhongguancun Street, Haidian District, Beijing; 100081, China); Liu, Jianhua; Gong, Hao; Wang, Runliang; Shi, Song; Anwer, Nabil **Source:** *Precision Engineering*, v 88, p 742-758, June 2024

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91. [Effect of grinding parameters on tooth surface waviness in continuous generating grinding for electric vehicle gears](#)

Tao, Yijie (State Key Laboratory of Mechanical Transmission for Advanced Equipment, China); Li, Guolong; Wang, Yu; Yu, Hao; Sun, Yu; Zhao, Xiaoliang **Source:** *Journal of Manufacturing Processes*, v 115, p 323-341, April 15, 2024

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Tao, Yijie (State Key Laboratory of Mechanical Transmission for Advanced Equipment, China); Li, Guolong; Wang, Yu **Source:** *Precision Engineering*, v 91, p 242-254, December 2024

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93. [A Novel Method for Obtaining Analytical Parameters Based on Double-Flank Measurement](#) (Open Access)

Wang, Xiaoyi (School of Mechatronics Engineering, Henan University of Science and Technology, Luoyang; 471003, China); Liu, Mingkan; Yao, Tianyang; Zheng, Kunlei; Zhao, Chengxiang; Xiao, Longyuan; Zhu, Dongjie; Shi, Zhaoyao **Source:** *Sensors*, v 24, n 9, May 2024

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Gauder, Daniel (wbk Institute of Production Science, Karlsruhe Institute of Technology (KIT), Kaiserstr. 12, Karlsruhe; 76131, Germany); Gözl, Johannes; Bott, Alexander; Stein, Martin; Lanza, Gisela **Source:** *Measurement Science and Technology*, v 35, n 10, October 2024

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95. [Non-contact flank modifications of spur gears using cathodic gear tools and mechanisms: an experimental study](#)

Rana, Vivek (Department of Mechanical Engineering, Indian Institute of Technology Indore, Madhya Pradesh, India); Jain, Neelesh Kumar; Pathak, Sunil **Source:** *Materials and Manufacturing Processes*, v 39, n 5, p 720-734, 2024

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Li, Zhen (College of Mechanical and Electrical Engineering, Central South University, Changsha, China); Wang, Qingshan; Wang, Ruihua; Qin, Bin; Shao, Wen **Source:** *Journal of Low Frequency Noise Vibration and Active Control*, v 43, n 1, p 41-74, March 2024

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Wang, Mingyang (Key Laboratory of Mechanism Theory and Equipment Design of Ministry of Education, Tianjin University, Tianjin; 300072, China); Li, Shuwen; Sun, Yuehai **Source:** *Mechanisms and Machine Science*, v 149, p 35-44, 2024, *Advances in Mechanism and Machine Science - Proceedings of the 16th IFToMM World Congress 2023—Volume 3*

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Zhou, Sen (Chongqing Academy of Metrology and Quality Inspection, Chongqing; 401121, China); Mao, Shuang; Tao, Lei; Zhou, Jin; Xu, Jian **Source:** *Proceedings of SPIE - The International Society for Optical Engineering*, v 13083, 2024, *SPIE Future Sensing Technologies 2024*

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Gomes, Caio Felipe Siqueira (Instituto Tecnológico de Aeronáutica, Praça Marechal-do-Ar Eduardo Gomes, 50, São José Dos Campos/SP, Brazil); Colombo, Tiago Cristofer Aguzzoli; Rego, Ronnie Rodrigo **Source:** *Lecture Notes in Mechanical Engineering*, p 46-54, 2024, *ABCM Series on Mechanical Sciences and Engineering - 12th Brazilian Manufacturing Engineering Congress - COBEF*

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Becker, Linda (Ruhr-University Bochum, Bochum; D-44801, Germany); Tenberge, Peter **Source:** *Tribologie und Schmierungstechnik*, v 71, n 1, p 35-43, May 2024

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Shao, Yanjie (South China University of Technology, School of Mechanical and Automotive Engineering, China); Chen, Yangzhi; Xiao, Xiaoping; Zheng, Maoxi; He, Weitao **Source:** *Strojniski Vestnik/Journal of Mechanical Engineering*, v 70, n 9-10, p 483-493, 2024

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Reavie, Tom (National Gear Metrology Laboratory, Design Unit, Newcastle University, Newcastle, United Kingdom); Frazer, Robert; Przyklenk, Anita; Stein, Martin **Source:** *Engineering Research Express*, v 6, n 1, March 2024

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Hochrein, Jonas-Frederick (Gear Research Center (FZG), TUM School of Engineering and Design, Technical University of Munich, Boltzmannstraße 15, Garching near Munich; 85748, Germany); Otto, Michael; Stahl, Karsten **Source:** *Mechanism and Machine Theory*, v 195, May 2024

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Yang, Ji-Xuan (State Key Laboratory of Automotive Simulation and Control, Jilin University, Changchun; 130025, China); Chen, Zhi-Yong; Shi, Wen-Ku; Yang, Hong-Bo; Zhao, Yan-Yan; Song, Hai-Sheng; Liu, Jian **Source:** *SSRN*, July 31, 2024

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Wang, Yazhou (School of Mechanical and Electrical Engineering, Lanzhou University of Technology, 36 Pengjiaping Road, Qilihe District, Lanzhou; 730050, China); Wang, Gang; Fan, Yuanzhuo; Zhang, Haokun; Liu, Yongping **Source:** *SSRN*, March 10, 2024

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Zhang, Xiaochen (Fujian Normal University, College of Computer and Cyber Security, Fuzhou; 350117, China); Wang, Chen; Zhou, Wei; Xu, Jiajia; Han, Te **Source:** *IEEE Internet of Things Journal*, v 11, n 13, p 23055-23067, July 1, 2024

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Wang, Yazhou (School of Mechanical and Electrical Engineering, Lanzhou University of Technology, 36 Pengjiaping Road, Qilihe District, Lanzhou; 730050, China); Wang, Gang; Fan, Yuanzhuo; Zhang, Haokun; Liu, Yongping **Source:** *Results in Engineering*, v 22, June 2024

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109. [Consideration of multi-variable uncertainty using the GPC method for the dynamic study of a two-stage gearbox of a wind turbine](#)

Hadj Kacem, M. (Normandie Mechanical Laboratory LMN, Mechanical Engineering Department, National Institute of Applied Sciences of Rouen, Saint-Étienne-du-Rouvray, France); El Hami, A.; Dammak, K.; Trabelsi, H.; Walha, L.; Haddar, M. **Source:** *Mechanics of Advanced Materials and Structures*, v 31, n 7, p 1464-1477, 2024

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Source: *ASTM - Standards*, v 01.07, 2024

Versions: 6

Status: Active - Reapproval

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Yu, Bo (Beijing Engineering Research Center of Precision Measurement Technology and Instruments, Beijing University of Technology, Beijing; 100124, China); Li, Zhenggao; Sun, Yanqiang; Shi, Zhaoyao **Source:** *Measurement Science and Technology*, v 35, n 5, May 2024

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Cao, Ke (Academy of Machinery Science and Technology Group, Yanqi Lake Institute of Basic Manufacturing Technology Group Co., Ltd., Beijing, China); Qiu, Cheng; Gong, Yu; Li, Jinfeng **Source:** *Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science*, v 238, n 6, p 2521-2531, March 2024

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Han, Yi (National Engineering Research Center for Equipment and Technology of Cold Strip Rolling, Yanshan University, Qinhuangdao; 066004, China); Shao, Zhuge; Liu, Yuejun; Wang, Dashuang; Xiao, Yao; Zhang, Tianxiong **Source:** *Applied Thermal Engineering*, v 255, October 15, 2024

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Steinbacher, Matthias (Leibniz-Institut für Werkstofforientierte Technologien-IWT, Badgasteiner Str. 3, Bremen; 28359, Germany); Hellenbrand, Gerrit; Mevissen, Dieter; Brimmers, Jens; Brecher, Christian **Source:** *ASTM Special Technical Publication*, v STP 1649, p 29-47, 2024, *Bearing and Transmission Steels Technology*

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Chen, Yong (State Key Laboratory of Featured Metal Materials and Life-Cycle Safety for Composite Structures, Guangxi University, Nanning; 530004, China); Luo, Li; Zhang, Yuquan; Zhou, Xingyun; Zeng, Deshan; Yu, Fucheng **Source:** *Materials*, v 17, n 23, December 2024

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Müller, Daniel (Gear Research Center (FZG), Institute of Machine Elements, TUM School of Engineering and Design, Technical University of Munich, Boltzmannstrasse 15, Garching; 85748, Germany); Tobie, Thomas; Stahl, Karsten **Source:** *Forschung im Ingenieurwesen/Engineering Research*, v 88, n 1, December 2024

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118. [Study on Heat Transfer Characteristics of High-Speed Herringbone Gear in Meshing Process Under Oil Injection Lubrication](#)

Chu, Xiaomeng (College of Mechanical Engineering and Automation, Liaoning University of Technology, Liaoning Province, Jinzhou; 121001, China); Liu, Yali; Zeng, Hong **Source:** *Journal of Thermal Science and Engineering Applications*, v 16, n 4, April 1, 2024

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119. [Optimization of splash lubrication in the gearbox considering heat transfer performance](#)

Qian, Xu (School of Mechanical and Aerospace Engineering, Jilin University, Changchun; 130022, China); Yan, Wanbin; Chen, Sujiao; Zhang, Yonghua; Luo, Yuchao; Liu, Chunbao **Source:** *Tribology International*, v 195, July 2024

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120. [A numerical model for total bending fatigue life estimation of carburized spur gears considering the hardness gradient and residual stress](#)

Sun, Xianshun (Key Laboratory of High Efficiency and Clean Mechanical Manufacture of MOE, School of Mechanical Engineering, Shandong University, Jinan; 250061, China); Zhao, Jun; Song, Shaokang; Lu, Yongliang; Sun, Huiyang **Source:** *Meccanica*, v 59, n 7, p 1037-1060, July 2024

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Hildebrand, Lucas (Technical University of Munich, School of Engineering and Design, Department of Mechanical Engineering, Gear Research Center (FZG), Boltzmannstraße 15, Garching near Munich; D-85748, Germany); Genuin, Stefan; Lohner, Thomas; Stahl, Karsten **Source:** *Tribology International*, v 195, July 2024

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122. [Heat transfer on impingement cooled meshing spur gears: Experimental comparison of into-mesh, out-of-mesh and inclined impingement methods](#) (Open Access)

Ayan, Emre (Institute of Thermal Turbomachinery, Karlsruhe Institute of Technology, Karlsruhe, Germany); Kromer, Christian; Schwitzke, Corina; Bauer, Hans-Jörg **Source:** *Heat and Mass Transfer/Waerme- und Stoffuebertragung*, v 60, n 4, p 685-700, April 2024

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123. [Understanding the distinction between quenching and carburizing quenching stress field: Evolution mechanism of quenching stress field influenced by carbon content in low-carbon alloy steel](#)

Liu, Huaming (State Key Laboratory of Precision Manufacturing for Extreme Service Performance, Central South University, Changsha; 410017, China); Tang, Jinyuan; Liu, Chenwei; Liu, Yashuai; Jiang, Weizhe; Sun, Beier **Source:** *Surface and Coatings Technology*, v 489, August 15, 2024

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124. [Flank fractures on spiral bevel gears—transfer of analytical methods for the estimation of residual stresses from cylindrical gears to bevel gears](#) (Open Access)

Truong, Thi Tra My (Institute of Machine Elements and Machine Design (IMM), TU Dresden, Dresden; 01062, Germany); Ulrich, Carsten; Schumann, Stefan; Schlecht, Berthold **Source:** *Forschung im Ingenieurwesen/Engineering Research*, v 88, n 1, December 2024

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125. [Investigation on the Lubrication Heat Transfer Mechanism of the Multilevel Gearbox by the Lattice Boltzmann Method](#) (Open Access)

Li, Qihan (College of Mechanical Engineering, Zhejiang University of Technology, Hangzhou; 310014, China); Xu, Pu; Li, Lin; Xu, Weixin; Tan, Dapeng **Source:** *Processes*, v 12, n 2, February 2024

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126. [A novel dynamic heat-flow coupled model under spray lubrication for high-speed gears: CFD simulation and experimental validation](#)

Qiao, Zizhen (State Key Laboratory of Advanced Design and Manufacture for Vehicle Body, Hunan University, Changsha; 410082, China); Zhou, Changjiang; Su, Jie; Jiang, Xinghe **Source:** *Simulation Modelling Practice and Theory*, v 131, February 2024

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Finch, Thomas (nCATS, Faculty of Engineering and Physical Sciences, University of Southampton, Southampton, United Kingdom); Vitu, Tomas; Polcar, Tomas **Source:** *Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology*, v 238, n 1, p 26-43, January 2024

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Ralls, Alessandro Mauricio (University of Nevada, Reno) **Source:** *ProQuest Dissertations and Theses Global*, 2024

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129. [Untersuchung der Maß- und Formänderungen bei kombinierten Randschichtwärmebehandlungen von Getriebekomponenten aus 31CrMoV9 und 42CrMo4](#)

Hoja, S. (Leibniz-Institut für Werkstofforientierte Technologien, IWT, Badgasteiner Str. 3, Bremen; 28359, Germany); Guba, N.; Haupt, N.; Surm, H.; Hüseman, T. **Source:** *HTM - Journal of Heat Treatment and Materials*, v 79, n 4, p 161-183, August 1, 2024

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Hicks, Calum (National Manufacturing Institute Scotland (NMIS), University of Strathclyde, Glasgow, United Kingdom); Tamimi, Saeed; Sivaswamy, Giribaskar; Pimentel, Misael; McKegney, Scott; Fitzpatrick, Stephen **Source:** *Journal of Materials Research and Technology*, v 30, p 6596-6608, May 1, 2024

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131. [Impacts of DLC and Cr-DLC coatings on noise level emitted during contact fatigue tests on AISI 4320 steel carburized gears](#)

da Silva, Fernando Souza Roker (Department of Materials, Tribology and Surfaces, Federal University of Technology-Paraná, Paraná, Curitiba, Brazil); Franco, Renato Ribeiro; Dalcin, Rafael Luciano; da Silva, Carlos Henrique **Source:** *Journal of the Brazilian Society of Mechanical Sciences and Engineering*, v 46, n 7, July 2024

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132. [Effect of alloy-specific case-hardening layers on the grindability of gears](#) (Open Access)

Hüseman, Tobias (Leibniz Institute for Materials Engineering, Division Manufacturing Technologies, Badgasteiner Straße 3, Bremen; 28359, Germany); Guba, Nikolai; Surm, Holger; Heinzl, Carsten **Source:** *CIRP Annals*, v 73, n 1, p 253-256, January 2024

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133. [Finite Element Numerical Simulation and Repair Process of Laser Cladding Repair of Surface Cracks on Mechanical Parts](#) (Open Access)

Yu, Shuangyang (School of Mechanical and Electrical Engineering, Jiangxi University of Science and Technology, Ganzhou; 341000, China); Chong, Qi; Zhou, Jianzhu; Yang, Youwen; Li, Hua **Source:** *Micromachines*, v 15, n 12, December 2024

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134. [Determination of Material and Fracture Properties of a Case-Hardened Planet Gear and Its Homogenisation Method to Obtain the Damage Mechanism Caused by Fragment Ingestion](#) (Open Access)

Jeßberger, Julia (Mechatronic Systems in Mechanical Engineering, Technical University of Darmstadt, Otto-Berndt-Straße 2, Darmstadt; 64287, Germany); Fischer, Christian; Rinderknecht, Stephan **Source:** *Materials*, v 17, n 2, January 2024

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135. [Influence of discrete laser surface melting on scuffing resistance of W6Mo5Cr4V2 steel gear](#)

Lv, You (School of Mechanical and Civil Engineering, Jilin Agricultural Science and Technology University, Jilin; 132101, China); Cui, Bo; Sun, Zhaolong; Xiao, Xinlei **Source:** *Surface Topography: Metrology and Properties*, v 12, n 3, September 2024

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Zhang, Boyu (State Key Laboratory of Mechanical Transmission for Advanced Equipment, Chongqing University, Chongqing, China); Liu, Huaiju; He, Yongyong; Guagliano, Mario **Source:** *Fatigue and Fracture of Engineering Materials and Structures*, v 47, n 8, p 3000-3014, August 2024

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Yan, Letian (College of Mechanical Engineering, Chongqing University of Technology, Chongqing; 400050, China); Yang, Changhui; Yang, Ge; Xin, Dong **Source:** *SSRN*, March 29, 2024

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Yan, Letian (College of Mechanical Engineering, Chongqing University of Technology, Chongqing; 400050, China); Yang, Changhui; Ge, Yang; Xin, Dong **Source:** *Measurement: Journal of the International Measurement Confederation*, v 238, October 2024

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140. [Numerical modeling and experimental investigation on fatigue failure and contact fatigue life forecasting for 8620H gear](#)

Li, Xin (State Key Laboratory of Precision Manufacturing for Extreme Service Performance, College of Mechanical and Electrical Engineering, Central South University, Hunan, Changsha; 410083, China); Shao, Wen; Tang, Jinyuan; Ding, Han; You, Shengyu; Zhao, Jiuyue; Chen, Jiling **Source:** *Engineering Fracture Mechanics*, v 296, February 9, 2024

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141. [A comprehensive optimization method for considering the theoretical and practical machining errors to the accurate power skiving of spur face gears by optimizing both cutting edges and tool path](#) (Open Access)

Wang, Zhiyong (College of Mechanical and Intelligent Manufacturing, Central South University of Forestry and Technology, Changsha; 410004, China); Tang, Zhongwei; Zhou, Yuansheng; Zeng, Biao; Tang, Jinyuan **Source:** *Journal of Computational Design and Engineering*, v 11, n 4, p 184-202, August 1, 2024

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Le, Khoe-Qui (Department of Mechanical Engineering, National Central University, No. 300, Zhongda Rd., Zhongli District, Taoyuan City; 320317, Taiwan); Wu, Yu-Ren; Tran, Van-Quyet; Tran, Hoang-Quy **Source:** *International Journal of Advanced Manufacturing Technology*, v 134, n 7-8, p 3665-3685, October 2024

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Yonezawa, Hiroki (Graduate School of Science and Engineering, Saitama University, Shimo-Okubo 255, Sakura-ku, Saitama-shi, Saitama; 338-8570, Japan); Kaneko, Jun'ichi; Abe, Takeyuki; Irino, Naruhiro; Shinba, Yuta; Imabeppu, Yasuhiro **Source:** *International Journal of Abrasive Technology*, v 12, n 5, p 1-14, 2024

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Guo, Erkuo (School of Mechanical Engineering, Jiangsu University, Zhenjiang; 212013, China); Chen, Mingfeng; Liu, Chang; Gu, Xin **Source:** *International Journal of Advanced Manufacturing Technology*, v 132, n 9-10, p 5141-5152, June 2024

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145. [Evaluation of Machine Tool Dynamics in Dry Gear Hobbing Considering Time-Varying Thermal Effects](#)

Li, Benjie (School of Mechatronic Engineering, Southwest Petroleum University, Chengdu; 610500, China); Zhang, Chao; Yang, Xiao; Li, Huangshuai; Yu, Changlin; Li, Binglin **Source:** SSRN, May 27, 2024

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Wang, Jingchao (Hunan University, Hunan, Changsha; 410000, China); Yu, Jianwu; Huang, Kaifeng; Shang, Zhentao; Qian, Jun **Source:** Journal of Physics: Conference Series, v 2827, n 1, 2024

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Lohmann, Jörg (EMAG Koepfer GmbH, Villingen-Schwenningen, Germany) **Source:** American Gear Manufacturers Association Fall Technical Meeting 2024, FTM 2024, 2024, American Gear Manufacturers Association Fall Technical Meeting 2024, FTM 2024

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148. [An efficient vectorization solution to cutting dynamics modeling for face-hobbing of hypoid gears](#)

Huang, Kaifeng (College of Mechanical and Vehicle Engineering, Hunan University, Lushan South Road 2, Yuelu District, Hunan, Changsha; 410082, China); Yu, Jianwu; Luo, Hong; Shang, Zhentao; Huang, Shuai; Fu, Lin **Source:** Mechanism and Machine Theory, v 191, January 2024

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Zhang, Jinwen (Chongqing University, College of Mechanical and Vehicle Engineering, The State Key Laboratory of Mechanical Transmission, Chongqing; 400044, China); Li, Congbo; Li, Yongsheng; Wang, Ningbo; Li, Wei **Source:** IEEE Transactions on Automation Science and Engineering, v 21, n 3, p 3289-3297, 2024

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Aylott, Christopher (Design Unit, Newcastle University, United Kingdom); Vaidhianathasamy, Moorthy; Shaw, Brian **Source:** American Gear Manufacturers Association Fall Technical Meeting 2024, FTM 2024, 2024, American Gear Manufacturers Association Fall Technical Meeting 2024, FTM 2024

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Tambake, Nagesh (Department of Mechanical Engineering, Walchand Institute of Technology, Solapur, India); Deshmukh, Bhagyesh; Pardeshi, Sujit; Mahmoud, Haitham A.; Cep, Robert; Salunkhe, Sachin; Nasr, Emad Abouel **Source:** *Frontiers in Materials*, v 11, 2024

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Le, Khoe-Qui (Department of Mechanical Engineering, National Central University, 300, Zhongda Rd., Zhongli District, Taoyuan City; 320317, Taiwan); Wu, Yu-Ren; Luu, Trong-Thuan **Source:** *Journal of Manufacturing Science and Engineering*, v 146, n 9, September 1, 2024

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153. [A comprehensive evaluation of DLC coating on gear bending fatigue, contact fatigue, and scuffing performance](#)

Wu, Jizhan (State Key Laboratory of Mechanical Transmission for Advanced Equipment, Chongqing University, Chongqing; 400044, China); Wei, Peitang; Liu, Guoqiang; Chen, Difa; Zhang, Xiuhua; Chen, Taimin; Liu, Huaiju **Source:** *Wear*, v 536-537, January 15, 2024

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Gu, Biao (School of Mechanical Engineering, Chongqing University of Technology, Chongqing; 400054, China); Wang, Yuhang; Tan, Rulong; Zhang, Weiqing **Source:** *Journal of Physics: Conference Series*, v 2761, n 1, 2024

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155. [Prediction of pose- and position-dependent tool-tip dynamics in high-speed dry gear hobbing](#)

Li, Benjie (School of Mechatronic Engineering, Southwest Petroleum University, Chengdu; 610500, China); Zhu, Yingcai; Li, Huangshuai; Zheng, Hualin; Yang, Xiao; Guo, Liang **Source:** *Mechanical Systems and Signal Processing*, v 214, May 15, 2024

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Li, Xin (State Key Laboratory of Precision Manufacturing for Extreme Service Performance, College of Mechanical and Electrical Engineering, Central South University, Changsha; 410083, China); Shao, Wen; Tang, Jinyuan; Zhang, Ding; Chen, Jiling; Zhao, Jiuyue; Wen, Yuqin **Source:** *Engineering Failure Analysis*, v 165, November 2024

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Cheng, Zhenbang (Anhui Undergrowth Crop Intelligent Equipment Engineering Research Center, West Anhui University, Lu'an, 237012, China); Zhou, Yu; Liu, Zhengyu **Source:** *Journal of Vibroengineering*, v 26, n 2, p 223-239, March 1, 2024

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Rong, Shifeng (State Key Laboratory of Precision Manufacturing for Extreme Service Performance, Central South University, Changsha; 410083, China); Zhang, Jiange; Zhang, Xing; Li, Keliang; Rong, Kaibin; Zhou, Zhenyu; Ding, Han **Source:** *Mechanism and Machine Theory*, v 191, January 2024

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Ma, Xiang (Tianjin Key Laboratory for Advanced Mechatronic System Design and Intelligent Control, School of Mechanical Engineering, Tianjin University of Technology, No. 391 Bingshuixi Road, Xiqing District, Tianjin; 300384, China); Rui, Chengjie; Zhao, Xiaoshuai; Jia, Zeyi **Source:** *Journal of Advanced Mechanical Design, Systems and Manufacturing*, v 18, n 6, 2024

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160. [Numerical and experimental investigation on temperature field during small-module gear creep feed deep profile grinding](#)

Yi, Jun (Hunan Provincial Key Laboratory of High Efficiency and Precision Machining of Difficult-to-Cut Material, Hunan University of Science and Technology, Xiangtan; 411201, China); Pei, Kanglin; Li, Zhihong; Zhou, Wei; Deng, Hui **Source:** *International Journal of Advanced Manufacturing Technology*, v 132, n 9-10, p 4965-4977, June 2024

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Zhou, Weihua (Powder Metallurgy Research Institute, Central South University, Changsha; 410083, China); Tang, Jinyuan; Rong, Kaibin; Li, Zhuan; Shao, Wen **Source:** *Journal of Manufacturing Processes*, v 132, p 659-676, December 26, 2024

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Yang, Shuying (College of Mechanical Engineering, Changshu Institute of Technology, Suzhou; 210016, China); Chen, Weifang; Zheng, Lei **Source:** *Journal of Manufacturing Processes*, v 124, p 1010-1024, August 30, 2024

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Li, Yan (School of Mechanical Engineering, University of Shanghai for Science and Technology, Shanghai; 260093, China); Li, Gang; Wang, Zhonghou; Zhu, Wenmin **Source:** *Precision Engineering*, v 88, p 664-673, June 2024

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Kai, Xu (College of Mechanical Engineering, Chongqing University of Technology, Chongqing; 400054, China); Zheyu, Li; Guolong, Li; Liuqing, Du; Jianwei, Ji **Source:** *International Journal of Advanced Manufacturing Technology*, v 135, n 9-10, p 4963-4973, December 2024

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Aravindan, S. (Indira Gandhi Centre for Atomic Research, Tamilnadu, Kalpakkam; 603102, India); Sreedharan, K.V.; Partha Sarathy, U.; John Arul, A. **Source:** *Lecture Notes in Mechanical Engineering*, p 431-444, 2024, *Fluid Mechanics and Fluid Power - Select Proceedings of FMFP 2022*

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Wu, Yangbiao (School of Mechanical Engineering, Inner Mongolia University of Science and Technology, Baotou; 014010, China); Zhang, Chao; Wang, Jianguo; Xu, Shuai **Source:** *Mechanisms and Machine Science*, v 151 MMS, p 777-783, 2024, *Proceedings of the UNified Conference of DAMAS, IncoME and TEPEEN Conferences (UNified 2023) - Volume 1*

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Kusznierewicz, Z. (Faculty of Mechatronics, Institute of Micromechanics and Photonics, Warsaw University of Technology, $\pm$ w. A. Boboli 8, Warsaw; 02-525, Poland); Michalowski, M.; Luczak, S.; Chanko, A.; Samsel, M.; Zarzycki, M.; Barczyk, R.; Kabzinski, B. **Source:** *Acta Physica Polonica A*, v 146, n 4, p 646-649, October 2024

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168. [Influence of Wear on Surface Crack Growth of PPS Thrust Bearing in Water Lubrication under 2300 N at 1200 rpm](#) (Open Access)

Kajiwar, Shuhei (University of Toyama, Gofuku 3190, Toyama; 930-8555, Japan); Machino, Sasuga; Kida, Katsuyuki **Source:** *Journal of Physics: Conference Series*, v 2892, n 1, 2024

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Chen, Yuanlong (School of Mechanical Engineering, Hefei University of Technology, Hefei; 230009, China); Wen, Xinyu; Wang, Yuqing; Wu, Muyao; Zhou, Jiarui; Wanyan, Shaoqi **Source:** *Mechanika*, v 30, n 6, p 507-513, 2024

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Guo, Minghui (State Key Laboratory of Intelligent Manufacturing Equipment and Technology, School of Mechanical Science and Engineering, Huazhong University of Science and Technology, Wuhan; 430074, China); Zhang, Guojun; Hu, Haidong; Tian, Zhuxin; Rong, Youmin; Huang, Yu; Wu, Congyi **Source:** *Journal of Tribology*, v 146, n 11, November 1, 2024

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Vehviläinen, Milla (VTT Technical Research Centre of Finland Ltd., P.O. Box 1000, VTT; FI-02044, Finland); Rahkola, Pekka; Keränen, Janne; Halme, Jari; Sopanen, Jussi; Liukkonen, Olli; Holopainen, Antti; Tammi, Kari; Belahcen, Anouar **Source:** *Mechanism and Machine Theory*, v 192, February 2024

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Zhang, Chao (School of Mechanical Engineering, Inner Mongolia University of Science and Technology, Baotou; 014010, China); Wu, Yangbiao; Xu, Shuai; Qin, Feifan; Wu, Le; Ouyang, Bing **Source:** *Journal of Vibroengineering*, v 26, n 4, p 776-792, 2024

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Kumar, Karan K. (Vellore Institute of Technology, Vellore, India); Mandava, Srihari **Source:** *Applied Artificial Intelligence*, v 38, n 1, 2024

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174. [Coupling effect of partial composite texture and thermal effect on the performance of hydrostatic bearing](#)

Chen, Dongju (Mechanical Industry Key Laboratory of Heavy Machine Tool Digital Design and Testing, Beijing Key Laboratory of Advanced Manufacturing Technology, College of Mechanical & Energy Engineering, Beijing University of Technology, Beijing, China); Cui, Yu; Sun, Kun; Fan, Jinwei; Cheng, Kai **Source:** *Lubrication Science*, v 36, n 5, p 407-419, August 2024

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Yanqin, Zhang (College of Mechanical Engineering, Nanjing Institute of Technology, Nanjing, China); Ye, Wu; Jiabao, Li; Mulan, Wang; Zhen, Quan **Source:** *Recent Patents on Mechanical Engineering*, v 17, n 4, p 304-311, 2024

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Razavian, Hosein (Mechanical Engineering Department, Bu-Ali Sina University, Iran); Shooshtari, Alireza **Source:** *JVC/Journal of Vibration and Control*, v 30, n 3-4, p 531-544, February 2024

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Gao, Shuai (Tsinghua University, Beijing; 100084, China); Liu, Lanyu; Han, Qinkai **Source:** *Mechanisms and Machine Science*, v 139, p 309-319, 2024, *Proceedings of the 11th IFTOMM International Conference on Rotordynamics - Volume 1*

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Wu, Yuhou (School of Mechanical Engineering, Shenyang Jianzhu University, Liaoning, Shenyang; 110168, China); Guo, Jiancheng; Zhang, Xiaochen; Zhou, Peng; Meng, Weiying; Bai, Xu; Lu, He **Source:** *Case Studies in Thermal Engineering*, v 64, December 2024

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Huang, LingFeng (School of Mechanical Engineering and Automation, Shanghai University, Shanghai, China); Zhu, Liming; Yi, Shuxiang; Zhang, Xiaohan; Wang, Xiaojing; Li, Xiangyu **Source:** *Industrial Lubrication and Tribology*, 2024 Article in Press

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Walsh, Natalie F. (Thermal Control Department, The Aerospace Corporation, El Segundo; CA; 90245, United States); Takeuchi, Yoshimi R.; Zhang, Zhuomin M.; McHale, John P. **Source:** *AIAA Aviation Forum and ASCEND*, 2024, 2024, *AIAA Aviation Forum and ASCEND*, 2024

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Fu, Xianpeng (CAS Center for Excellence in Nanoscience, Beijing Key Laboratory of Micro-nano Energy and Sensor, Beijing Institute of Nanoenergy and Nanosystems, Chinese Academy of Sciences, Beijing; 101400, China); Qin, Yuhao; Zhang, Zhi; Liu, Guoxu; Cao, Jie; Fan, Beibei; Wang, Zhaozheng; Wang, Zheng; Zhang, Chi **Source:** *Energy and Environmental Materials*, v 7, n 2, March 2024

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Versions: 1

Status: Active - Definitive

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Werner, Michel (RPTU Kaiserslautern Landau, Institute of Machine Elements, Gears and Tribology, Kaiserslautern, Germany); Emrich, Stefan; Koch, Oliver; Sauer, Bernd; Kopnarski, Michael **Source:** *Tribology Transactions*, v 67, n 3, p 401-410, 2024

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Zhao, Lijuan (School of Mechanical Engineering, Ningxia Institute of Science and Technology, Shizuishan, China); Yang, Hexu **Source:** *Proceedings of SPIE - The International Society for Optical Engineering*, v 13081, 2024, *Third International Conference on Advanced Manufacturing Technology and Electronic Information*, AMTEI 2023

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185. [A Novel 3d Design of the Hydrodynamic Pocketed Thrust Bearing with Slip Engineered for Eliminating Cavitation](#)

Syafaat, Imam (Department of Mechanical Engineering, Faculty of Engineering, Universitas Wahid Hasyim, Jln. Raya Gunungpati KM. 15, Nongkosawit, Gunungpati, Semarang; 50224, Indonesia); Nugroho, Agung; Sodikin, Muchammad; Hida, Ajib Akmal; Ratnani, Rita Dwi; Setiyana, Budi; Muchammad, Muchammad; Tauviquirrahman, Mohammad **Source:** *SSRN*, August 19, 2024

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Huo, Zhongtang (Mechanical and Electrical College, Handan University, Handan; 056000, China); Chen, Jianqi; Hao, Lingjuan; Gao, Jiansong **Source:** *Journal of Failure Analysis and Prevention*, v 24, n 6, p 2794-2805, December 2024

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Morales-Espejel, Guillermo Enrique (SKF Research and Technology Development, Meidoornkade 14, Houten; 3992 AE, Netherlands); Misiaszek, Matthew; Lengagne, Thomas; Guo, Liang **Source:** *Tribology Online*, v 19, n 6, p 573-583, 2024

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Syafaat, Imam (Department of Mechanical Engineering, Faculty of Engineering, Universitas Wahid Hasyim, Jln. Raya Gunungpati KM. 15, Nongkosawit, Gunungpati, Semarang; 50224, Indonesia); Nugroho, Agung; Sodikin, Muchammad; Hida, Ajib Akmal; Ratnani, Rita Dwi; Setiyana, Budi; Muchammad, Muchammad; Tauviqirrahman, Mohammad **Source:** *Results in Engineering*, v 24, December 2024

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190. [Time-variant reliability analysis of angular contact ball bearing considering the coupled effect of rolling contact fatigue damage and wear](#)

Xie, Bin (School of Mechanical Engineering and Automation, Beihang University, Beijing; 100191, China); Wang, Yanzhong; Zhu, Yunyi; Liu, Peng; Wu, Yu; Lu, Fengxia **Source:** *Reliability Engineering and System Safety*, v 241, January 2024

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Wang, Xinqi (School of Mechanical Engineering, Dalian University of Technology, No. 2, Linggong Road, Ganjingzi District, Liaoning Province, Dalian; 116024, China); Sun, Wei; Wang, Lintao; Liang, Shihu; Chi, Huashan; Yuan, Bo **Source:** *Engineering Failure Analysis*, v 162, August 2024

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192. [Relating rolling contact fatigue \(RCF\) life to the microstructure evolution in aerospace grade bearing steels: A comparison of Cronidur-30 with AISI 440C](#)

Rejith, R. (Bearings and Space Tribology Group, ISRO Inertial Systems Unit, Vattiyookavu, Trivandrum; 695013, India); Arivu, Y.; Kesavan, D.; Chakravarthy, P.; Narayana Murty, S.V.S. **Source:** *International Journal of Fatigue*, v 186, September 2024

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193. [Advancing the understanding of short fatigue crack propagation: Leveraging ultrasonic testing device to approach rolling contact fatigue](#) (Open Access)

Didier, Adrien (INSA Lyon, CNRS, LaMCoS, UMR 5259, Villeurbanne; 69621, France); Naouar, Naim; Deterre, Geoffray; Chaudet, Philippe; Nelias, Daniel **Source:** *Materialia*, v 38, December 2024

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194. [Micromechanical response of dual-hardening martensitic bearing steel before and after rolling contact fatigue](#) (Open Access)

Loaiza, Tania (Department of Materials Science and Engineering, KTH Royal Institute of Technology, Stockholm, SE 100 44, Sweden); Fischer, Tim; Babu, Revathy Prasath; Hedström, Peter **Source:** *Journal of Materials Research and Technology*, v 29, p 4728-4734, March 1, 2024

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Zhao, Yue (School of Mechanical Electronic & Control Engineering, Beijing Jiaotong University, Beijing, China); Wang, Xi; Guo, Rubing; Sun, Shouguang **Source:** *International Journal of Damage Mechanics*, v 33, n 4, p 293-309, April 2024

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Zhao, Yue (School of Mechanical Electronic & Control Engineering, Beijing Jiaotong University, Beijing; 100044, China); Hou, Yu; Wang, Xi; Wei, Jiaqi; Shi, Huailong; Sha, Chengyu; Sun, Shouguang **Source:** *Engineering Failure Analysis*, v 159, May 2024

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197. [Study on predicting rolling contact fatigue of pitch bearing raceway in offshore wind turbine](#)

He, Haifeng (School of Mechanical and Electrical Engineering, Guizhou Normal University, 550025, China); Chen, Yiming; Jin, Xin; Liu, Heli; Wang, Chunmei **Source:** *International Journal of Fatigue*, v 184, July 2024

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Han, Xinqi (School of Mechanical Engineering and Mechanics, Key Laboratory of Part Rolling of Zhejiang Province, Ningbo; 315211, China); Li, Shuxin; Sun, Chengqi; Lu, Siyuan **Source:** *Engineering Fracture Mechanics*, v 297, February 21, 2024

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Xia, Zhuofan (School of Materials Science and Engineering, University of Science and Technology of China, 72 Wenhua Road, Shenyang; 110016, China); Wu, Di; Zhang, Xiaochen; Wang, Jianqiu; Han, En-Hou **Source:** *International Journal of Fatigue*, v 179, February 2024

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Singh, Kushagra (School of Mechanical Engineering, Purdue University, West Lafayette; IN; 47907, United States); Sadeghi, Farshid **Source:** *International Journal of Mechanical Sciences*, v 264, February 15, 2024

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Zaid, Mael (Airbus Helicopters, Aéroport International Marseille Provence, Marignane; 13700, France); Doquet, Véronique; Chiaruttini, Vincent; Depouhon, Pierre; Bonnard, Vincent; Pacou, Didier **Source:** *International Journal of Fatigue*, v 182, May 2024

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Loaiza, Tania (Dept. of Materials Science and Engineering, KTH Royal Institute of Technology, Stockholm; SE 100 44, Sweden); Ooi, Steve; Babu, Revathy Rajan Prasath; Ölund, Patrik; Hedström, Peter **Source:** *ASTM Special Technical Publication*, v STP 1649, p 525-540, 2024, *Bearing and Transmission Steels Technology*

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Machino, Sasuga (University of Toyama, Gofuku, Toyama; 3190, Japan); Shinkai, Shogo; Matsueda, Takahiro; Mizobe, Koshiro; Kida, Katsuyuki **Source:** *Journal of Physics: Conference Series*, v 2845, n 1, 2024

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205. [Microstructural decay of matrix and precipitates during rolling contact fatigue in a martensitic dual-hardening bearing steel](#) (Open Access)

Loaiza, Tania (Department of Materials Science and Engineering, KTH Royal Institute of Technology, Stockholm; SE 100 44, Sweden); Ooi, Steve; Yildiz, Ahmet Bahadir; Dahlström, Alexander; Babu, R. Prasath; Hedström, Peter **Source:** *Materials and Design*, v 244, August 2024

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206. [Effect of primary carbides on rolling contact fatigue behaviors of M50 bearing steel](#)

Shao, Ziheng (Institute of Metal Research, Chinese Academy of Sciences, Shenyang; 110016, China); Zhu, Yankun; Zhang, Peng; Cao, Yanfei; Wang, Bin; Xu, Zikuan; Liu, Hanzhong; Gu, Xuezhong; Liu, Hongwei; Li, Dianzhong; Zhang, Zhefeng **Source:** *International Journal of Fatigue*, v 179, February 2024

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207. [Relating Rolling Contact Fatigue Life to the Microstructure Evolution in Cronidur-30 Bearing Steel](#)

Rejith, R. (Bearings and Space Tribology Group, ISRO, Inertial Systems Unit, Vattiyookavu, Trivandrum; 695013, India); Arivu, Y.; Kesavan, D.; Chakravarthy, P.; Narayana Murty, S.V.S. **Source:** *SSRN*, February 18, 2024

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Cai, Xin (Shenyang National Laboratory for Materials Science, Institute of Metal Research, Chinese Academy of Sciences, Shenyang; 110016, China); Hu, Xiaoqiang; Lu, Xingyu; Liu, Hongwei; Cao, Yanfei; Li, Dianzhong **Source:** *Journal of Materials Science and Technology*, v 169, p 243-250, January 10, 2024

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Menck, Oliver (Fraunhofer Institute for Wind Energy Systems Iwes, Am Schleusengraben 22, Hamburg; 21029, Germany); Stammer, Matthias **Source:** *Wind Energy Science*, v 9, n 4, p 777-798, April 5, 2024

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Lecouffe, A. (INSA Lyon, CNRS, LaMCoS, UMR5259, Villeurbanne; 69621, France); Kleber, X.; Ville, F.; Cavoret, J.; Zamponi, L.; Ruellan, A. **Source:** *Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology*, v 238, n 12, p 1626-1632, December 2024

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Zhang, Wenhui (School of Mechatronics Engineering, Henan University of Science and Technology, Luoyang; 471000, China); Li, Wanjia; Liu, He; He, Tiantian; Deng, Sier; Tian, Heng; Cao, Wenquan **Source:** *Tribology International*, v 194, June 2024

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Matsubayashi, Soji (University of Toyama, Gofuku, Toyama; 3190, Japan); Kajiwar, Shuhei; Matsueda, Takahiro; Kida, Katsuyuki **Source:** *Journal of Physics: Conference Series*, v 2845, n 1, 2024

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213. [Peridynamic modeling of hydrogen-assisted white etching cracks in bearing steel under rolling contact fatigue](#) (Open Access)

Wang, Lanwen (Department of Mechanical Engineering, Tsinghua University, Beijing; 100084, China); Sheng, Xuanyu; Yao, Zhimeng; Luo, Jianbin **Source:** *International Journal of Fatigue*, v 173, August 2023

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Kiranbabu, Srikakulapu (Max-Planck-Institut für Eisenforschung GmbH, Düsseldorf; 40237, Germany); Morsdorf, Lutz; Gonzalez, Ivan; Kölling, Michael; Broß, Christian; Ponge, Dirk; Herbig, Michael; Mayweg, David **Source:** *Wear*, v 534-535, December 15, 2023

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Zurcher, Manuel (Friedrich-Alexander-Universitaet Erlangen-Nuernberg (Germany)) **Source:** *ProQuest Dissertations and Theses Global*, 2024

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Chen, Jin-Hua (School of Mechanical Engineering and Mechanics, Key Laboratory of Impact and Safety Engineering of Ministry of Education Ningbo University, Ningbo, China); Xie, Chao; Li, Shu-Xin; Lu, Si-Yuan **Source:** *Fatigue and Fracture of Engineering Materials and Structures*, v 47, n 1, p 170-186, January 2024

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Zhang, Xiaochen (School of Materials Science and Engineering, University of Science and Technology of China, 72 Wenhua Road, Shenyang; 110016, China); Wu, Di; Xia, Zhuofan; Zhang, Yaming; Li, Yifeng; Wang, Jianqiu; Han, En-Hou **Source:** *Journal of Materials Research and Technology*, v 25, p 4876-4887, July 1, 2023

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Wu, Chenchen (School of Mechatronic and Automation Engineering, Shanghai University, Shanghai; 200444, China); Zhu, Qi; Su, Zhan; Xu, Duo; Zhang, Haiyan **Source:** *Journal of Physics: Conference Series*, v 2822, n 1, 2024

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220. [Angular contact ball bearing skidding mechanism analysis and diagnosis considering flexible rotor characteristics](#)

Ma, Leiming (College of Automation Engineering, Nanjing University of Aeronautics and Astronautics, Nanjing; 210016, China); Jiang, Bin; Lu, Ningyun; Xiao, Lingfei; Guo, Qintao **Source:** *Mechanical Systems and Signal Processing*, v 207, January 15, 2024

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Liu, Yuqing (State Key Laboratory of Rail Transit Vehicle System, Southwest Jiaotong University, Chengdu; 610031, China); Chen, Zaigang; Zhai, Wanming; Lei, Yaguo **Source:** *Mechanical Systems and Signal Processing*, v 206, January 1, 2024

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Kang, Jianxiong (Lanzhou University of Technology, School of Mechanical & Electrical Engineering, Lanzhou; 730050, China); Luo, Wei; Yan, Changfeng; Liu, Yaofeng; Lü, Yanjun; Wu, Lixiao **Source:** *SSRN*, November 8, 2023

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225. [Skidding and spinning investigation for dry-lubricated angular contact ball bearing under combined loads](#) (Open Access)

Zhao, Yuhao (State Key Laboratory for Manufacturing and Systems Engineering, Xi'an Jiaotong University, Xi'an; 710049, China); Ma, Zikui; Zi, Yanyang **Source:** *Friction*, v 11, n 11, p 1987-2007, November 2023

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226. [Effect of dented residual stress on the surface-defect-induced pitting under rolling contact loading of M50 bearing steel](#)

Li, Wanjia (School of Mechatronics Engineering, Harbin Institute of Technology, Heilongjiang, Harbin; 150001, China); Meng, Xiangxu; Shu, Kun; Zheng, Dezhi; Wang, Tingjian; Gu, Le; Wang, Liqin; Zhang, Chuanwei **Source:** *Tribology International*, v 194, June 2024

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El Laithy, Mostafa (National Center for Advanced Tribology at Southampton (nCATS), University of Southampton, University Road, Southampton; SO17 1BJ, United Kingdom); Wang, Ling; Harvey, Terry J.; Vierneusel, Bernd **Source:** *Tribology Online*, v 18, n 6, p 373-384, October 31, 2023

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Yang, Jianxi (College of Sino-German, Taizhou Vocational & Technical College, Zhejiang, Taizhou; 318000, China); Lin, Haibo; Zhang, Hongwei **Source:** *Proceedings of SPIE - The International Society for Optical Engineering*, v 12983, 2024, *Second International Conference on Electrical, Electronics, and Information Engineering, EEIE 2023*

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Atef, Mahmoud M. (Industrial and Manufacturing Engineering Department, School of Innovative Design Engineering, Egypt-Japan University of Science and Technology, New Borg El-Arab City; 21934, Egypt); Khair-Eldeen, Wael; Yan, Jiwang; Nassef, Mohamed G.A. **Source:** *Tribology International*, v 197, September 2024

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López-Uruñuela, Fernando José (Tekniker, Basque Research and Technology Alliance (BRTA), C/ Iñaki Goenaga, 5, Eibar; 20600, Spain); Wang, Ling; Fernández, Beatriz; Aguirrebeitia, Josu; Pinedo, Bihotz **Source:** *Wear*, v 530-531, October 15, 2023

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Tian, Yu (School of Mechanical and Electrical Engineering, Lanzhou University of Technology, Lanzhou; 730050, China); Yan, Changfeng; Liu, Yaofeng; Luo, Wei; Kang, Jianxiong; Wang, Zonggang; Wu, Lixiao **Source:** *Journal of Mechanical Science and Technology*, v 37, n 11, p 5695-5711, November 2023

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232. [Measurement of Internal Residual Stress of Three-Directional Components and Estimation of Inherent Strain in Carburized Steel for Large Rolling Bearings by Combining the Contour Method and XRD Method](#) (Open Access)

Tsutsumi, Masako (Core Technology R&D Center, NSK Ltd., Fujisawa; 251-8501, Japan); Yamagami, Shota; Narasaki, Kunio; Watanuki, Daisuke; Miyamoto, Yuji; Ma, Ninshu **Source:** *Materials Transactions*, v 65, n 9, p 1099-1107, September 1, 2024

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Xu, Minmin (School of Mechanical Engineering, Guangxi University, Nanning; 530004, China); Wang, Mingchun; He, Dong; Ding, Xiaoxi; Shao, Yimin; Gu, Fengshou **Source:** *Tribology International*, v 194, June 2024

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Gao, Shuai (Department of Mechanical Engineering, Politecnico di Milano, Via G. La Masa 1, Milan; 20156, Italy); Han, Qinkai; Pennacchi, Paolo; Chatterton, Steven; Chu, Fulei **Source:** *Friction*, v 11, n 4, p 580-601, April 2023

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Leimann, Dirk-Olaf (Düsseldorfer Straße 4, Moers; 47441, Germany) **Source:** *Tribologie und Schmierungstechnik*, v 71, n 3, p 32-39, 2024

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Demas, Nicholas G. (Argonne National Laboratory, United States); Lorenzo-Martin, Cinta; Luna, Ryan; Erck, Robert A.; Greco, Aaron C. **Source:** *Tribology International*, v 189, November 2023

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