1. **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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2. **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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Peng, Chao (Sun Yat-sen University, Zhuhai, China); Jin, Sibo; 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
Data Provider: Engineering Village
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4. **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
Data Provider: Engineering Village
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5. **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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6. **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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7. 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
Data Provider: Engineering Village
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8. 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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9. 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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10. 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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11. 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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12. 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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13. 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
Data Provider: Engineering Village
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14. 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*
Database: Compendex
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15. 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-IFToMM 2024 - 5 International Tribology Symposium of IFToMM*
Database: Compendex
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16. 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
Database: Compendex
Data Provider: Engineering Village
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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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Ran, Yao (State Key Laboratory of Tribology in Advanced Equipment, Tsinghua University, Beijing; 100084, China); He, Qiang; Huang, Weifeng; Liu, Ying; Y., Wang **Source:** *Tribology International*, v 192, April 2024
Database: Compendex
Data Provider: Engineering Village
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19. **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
Data Provider: Engineering Village
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20. **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
Data Provider: Engineering Village
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21. **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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22. **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
Database: Compendex
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Compilation and indexing terms, Copyright 2026 Elsevier Inc.

23. **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
Data Provider: Engineering Village
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24. **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
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25. **Leakage flow-induced excitation behavior and rotor instability in the high-speed supercritical CO2 scallop damper seals** (*Open Access*)

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
Database: Compendex
Data Provider: Engineering Village
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26. **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.; H.P., Evans **Source:** *Tribology Transactions*, v 67, n 6, p 1084-1101, 2024
Open Access type(s): All Open Access, Hybrid Gold, Green
Database: Compendex
Data Provider: Engineering Village
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27. **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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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*
Database: Compendex
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29. **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
Database: Compendex
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Dejack, Michael A. (AVL Mobility Technologies Inc., United States); Tichy, Richard **Source:** *SAE Technical Papers*, April 9, 2024, *SAE World Congress Experience, WCX 2024*
Database: Compendex
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31. A review on gear scuffing studies: Theories, experiments and design

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
Database: Compendex
Data Provider: Engineering Village
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32. 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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33. 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
Data Provider: Engineering Village
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34. 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*
Database: Compendex
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35. 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
Database: Compendex
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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
Database: Compendex
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37. Non-Newtonian thermal elastohydrodynamic mixed lubrication in elliptical contact for nutation-driven double circular-arc spiral bevel gear pair

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
Database: Compendex
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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
Database: Compendex
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39. Tooth-root-stress evaluation for plastic gears considering effect of contact ratio under load (*Open Access*)

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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42. Numerical and experimental stress analysis of spur gears for weight reduction using radial holes

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
Database: Compendex
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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*
Database: Compendex
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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
Database: Compendex
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Zbončák, Radek (VÚTS, a.s., Liberec, Czech Republic); Ondřášek, 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*
Database: Compendex
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46. 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
Database: Compendex
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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*
Database: Compendex
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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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49. Analysis investigation of the influence of sub-surface shear stress distribution of spur gear

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
Database: Compendex
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50. 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
Open Access type(s): All Open Access, Hybrid Gold
Database: Compendex
Data Provider: Engineering Village
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51. 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
Open Access type(s): All Open Access, Hybrid Gold, Green
Database: Compendex
Data Provider: Engineering Village
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52. 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
Database: Compendex
Data Provider: Engineering Village
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53. 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
Database: Compendex
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54. Comparative Performance Evaluation of Spur Gears Made from Cast Iron and Epoxy Resin-Based Hybrid Composite Materials Utilizing the ANSYS Methodology

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*
Database: Compendex
Data Provider: Engineering Village
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55. Effect of Rim and Web Thickness on Tooth Root Stress of Spur Gear (*Open Access*)

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
Open Access type(s): All Open Access, Hybrid Gold
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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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57. Investigation and performance analysis of short carbon fiber reinforced polyamide 66 of spur gears

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
Database: Compendex
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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
Database: Compendex
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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
Open Access type(s): All Open Access, Gold, Green
Database: Compendex
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60. 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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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
Open Access type(s): All Open Access, Gold
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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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65. An improved tolerance analysis method for gear mechanisms considering form deviations and elastic-plastic contact behaviors

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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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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Wang, Xiaoyi (School of Mechatronics Engineering, Henan University of Science and Technology, Luoyang; 471003, China); Liu, Mingkang; Yao, Tianyang; Zheng, Kunlei; Zhao, Chengxiang; Xiao, Longyuan; Zhu, Dongjie; Shi, Zhaoyao **Source:** *Sensors*, v 24, n 9, May 2024
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69. Experimental uncertainty evaluation by measuring a micro gear standard using focus variation (*Open Access*)

Gauder, Daniel (wbk Institute of Production Science, Karlsruhe Institute of Technology (KIT), Kaiserstr. 12, Karlsruhe; 76131, Germany); Gölz, Johannes; Bott, Alexander; Stein, Martin; Lanza, Gisela **Source:** *Measurement Science and Technology*, v 35, n 10, October 2024
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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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Ding, Han (State Key Laboratory of High Performance Complex Manufacturing, Central South University, Changsha; 410083, China); Deng, Xiongyao; Xiao, Yiyuan; Wang, Jie; Li, Ruichao; Zhang, Guan; He, Daoguang **Source:** *International Journal of Heat and Mass Transfer*, v 230, September 15, 2024
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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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75. Influence of Different Gear Flank Deviation Tolerance Classes on the Contact Pattern

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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81. Research on Virtual Measurement Method of Gear Radial Composite Deviation Based on Point Cloud Data

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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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
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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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Source: *ASTM - Standards*, v 05.05, 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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92. **Prediction of residual stress depth profiles in case-carburized gears** (*Open Access*)

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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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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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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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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97. **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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98. **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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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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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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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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Hoja, S. (Leibniz-Institut fur Werkstofforientierte Technologien, IWT, Badgasteiner Str. 3, Bremen; 28359, Germany); Guba, N.; Haupt, N.; Surm, H.; Hüsemann, 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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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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Hüsemann, Tobias (Leibniz Institute for Materials Engineering, Division Manufacturing Technologies, Badgasteiner Straße 3, Bremen; 28359, Germany); Guba, Nikolai; Surm, Holger; Heinzel, Carsten **Source:** *CIRP Annals*, v 73, n 1, p 253-256, January 2024
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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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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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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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Vakouftsis, Christos (National Technical University of Athens, Greece); Vasileiou, Georgios; Kaisarlis, Georgios; Kalligeros, Christos; Papalexis, Christos; Zalimidis, Pavlos; Provatidis, Christopher; Spitas, Vasileios **Source:** *International Journal of Powertrains*, v 13, n 3, p 225-247, 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); C., Yang; Y., Ge; D., Xin **Source:** *Measurement: Journal of the International Measurement Confederation*, v 238, October 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, 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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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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119. **Analysis of uncut chip geometry and cutting force in gear skiving process using a cylindrical tool**

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
Database: Compendex
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120. **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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121. **Cutting state recognition of spiral bevel gear face hobbing** (*Open Access*)

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
Open Access type(s): All Open Access, Gold
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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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123. **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
Database: Compendex
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124. **Energy Consumption Modeling and Optimization of a Hobbing Machine Tool Considering Multi-Axis Coupling**

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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125. **Bending Fatigue Strength of Gear Steels for Automotive Electric Drive Units**

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*
Database: Compendex
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126. **Machine learning for monitoring hobbing tool health in CNC hobbing machine** (*Open Access*)

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
Open Access type(s): All Open Access, Gold, Green
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127. **A Mathematical Modeling of Computer Numerical Control Skiving Process for Manufacturing Helical Face Gears Using Sensitivity Matrix Combined With Levenberg-Marquardt Algorithm**

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
Database: Compendex
Data Provider: Engineering Village
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128. **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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129. **Research on the calculation method of grinding temperature field of spiral bevel gear based on generative machining** (*Open Access*)

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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130. **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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131. **Multi-physics field coupling interface lubrication contact analysis for gear transmission under various finishing processes**

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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132. **Modelling and dynamic behaviours of a high-contact-ratio spur-gear system considering rough surface** (*Open Access*)

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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133. Sustainability-oriented dry cutting tool collaborative optimization model for face-hobbing hypoid gears

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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134. Hobbing mechanism of worm gear tooth surface with wave edges of double enveloping toroidal worm gearing (*Open Access*)

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
Open Access type(s): All Open Access, Gold, Green
Database: Compendex
Data Provider: Engineering Village
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135. 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
Database: Compendex
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136. A parametric evaluation model of abrasive interaction for predicting tooth rough surface in spiral bevel gear grinding

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
Database: Compendex
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137. On the grinding temperature field of helical gears: Modeling and experiments

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
Database: Compendex
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138. A form-grinding wheel optimization method for helical gears based on a PSO-SVM model

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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139. An improved robust identification method for position independent geometric errors of the swing axis of the gear grinding machine

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
Database: Compendex
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140. Study of Pocket Pressure and Load Bearing Capacity in Pocket Type Hydrostatic Bearing Under Rotation

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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141. Dynamic Modeling of Rolling Bearing Outer Ring Failure with Time-Varying Excitation Under Contact Deformation

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 TEPEN Conferences (UNIfied 2023) - Volume 1*
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142. Study of Wear in Subminiature Thrust Rolling Bearing (*Open Access*)

Kusznierewicz, Z. (Faculty of Mechatronics, Institute of Micromechanics and Photonics, Warsaw University of Technology, ±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
Open Access type(s): All Open Access, Gold
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143. Influence of Wear on Surface Crack Growth of PPS Thrust Bearing in Water Lubrication under 2300 N at 1200 rpm (*Open Access*)

Kajiwara, 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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144. Optimization of Restrictor Parameters and Static Characteristics Study on Orifice Type Hydrostatic Thrust Bearing (*Open Access*)

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
Open Access type(s): All Open Access, Gold
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145. **Simulation and Experimental on Thermal Behavior of Hydrostatic Thrust Bearing Based on Superhydrophobic/Oleophobic Surface**

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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146. **Adapting geometry-based polygonal contacts for simulating faulty rolling bearing dynamics** (*Open Access*)

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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147. **Dynamic modeling and analysis of rolling bearing faults under time-varying excitations considering defect deformation** (*Open Access*)

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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148. **Real-time bearing fault classification of induction motor using enhanced inception ResNet-V2** (*Open Access*)

Kumar, Karan K. (Vellore Institute of Technology, Vellore, India); Mandava, Srihari **Source:** *Applied Artificial Intelligence*, v 38, n 1, 2024
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149. **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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150. **Thermal Characteristics of Oil Film in Critical Lubrication State of Heavy Hydrostatic Bearing**

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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151. Numerical investigation on the effects of crooked shaft washer of single row thrust ball bearing on its vibrational response

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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152. Dynamic Performance of Spacecraft Flywheel Ball Bearing with Different Type and Distribution of Cage Pocket Shape

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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153. Vibration properties of full ceramic bearing under elastohydrodynamic fluid lubrication based on the energy approach (*Open Access*)

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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154. Experimental study on the influence of flexible structure and gas supply method on the characteristics of aerostatic tilting-pad bearing

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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155. Characterization of Thermal Conductance Between a Ball and Parallel Plates for Spacecraft Bearing Applications

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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156. Ultra-Robust and High-Performance Rotational Triboelectric Nanogenerator by Bearing Charge Pumping (*Open Access*)

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, Yuhan; 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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157. Commercial road vehicles — Ball-bearing turntable — Interchangeability

Source: *BSI - Standards*, p 1-4, April 12, 2024
Versions: 1
Status: Active - Definitive
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158. Long-Term Investigations of Different Bearing Configurations at Solid-Lubricated Rolling Bearings (*Open Access*)

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
Open Access type(s): All Open Access, Hybrid Gold
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159. Dynamic Characteristics Analysis of Wind Turbine Gear System Considering Bearing Defects

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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160. 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; Tauviqirrahman, Mohammad **Source:** *SSRN*, August 19, 2024
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161. Simulation and Experimental Research on Rolling Bearing with Rolling Body Defect under Starved Lubrication Condition

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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162. Durability of Aircraft Gas Turbine Mainshaft Ball Bearing Applying Surface and Subsurface Survival (*Open Access*)

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
Open Access type(s): All Open Access, Gold, Green
Database: Compendex
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163. A 3D design of the hydrodynamic pocketed thrust bearing with slip engineered for eliminating cavitation (*Open Access*)

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
Open Access type(s): All Open Access, Gold
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164. Multiscale hydrodynamics in thrust bearing involving surface roughness

Huang, Chen (College of Mechanical Engineering, Changzhou University, Jiangsu Province, Changzhou, China); Zhang, Yongbin **Source:** *Continuum Mechanics and Thermodynamics*, v 36, n 3, p 445-458, May 2024
Database: Compendex
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165. 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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166. Rolling contact fatigue analysis of the soft zone for the main bearing in a tunnel boring machine

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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167. 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, Vattiyoorkavu, Trivandrum; 695013, India); Arivu, Y.; Kesavan, D.; Chakravarthy, P.; Narayana Murty, S.V.S. **Source:** *International Journal of Fatigue*, v 186, September 2024
Database: Compendex
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168. 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
Open Access type(s): All Open Access, Hybrid Gold
Database: Compendex
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169. **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
Open Access type(s): All Open Access, Gold
Database: Compendex
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170. **A rolling contact fatigue life prediction model for bearing steel considering its gradient structure due to cyclic hardening**

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
Database: Compendex
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171. **A multiaxial fatigue method for rolling contact fatigue life prediction of axle box bearing under wheel-rail excitation conditions**

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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172. **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
Database: Compendex
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173. **IKonPro®: A software for the probabilistic prediction of rolling contact fatigue** (*Open Access*)

Escalero, Mikel (Ikerlan Technology Research Center, Basque Research and Technology Alliance, Spain); Olave, Mireia; Behnke, Karsten; Muñiz-Calvente, Miguel **Source:** *Journal of Physics: Conference Series*, v 2692, n 1, 2024
Open Access type(s): All Open Access, Gold
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174. **Modelling micropit formation in rolling contact fatigue of bearings with a crystal plasticity damage theory coupled with cohesive finite elements**

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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175. **Rolling contact fatigue failure mechanism of bearing steel on different surface roughness levels under heavy load**

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
Database: Compendex
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176. **Fundamental relationship between rolling contact fatigue driven surface damage and torsional fatigue**

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
Database: Compendex
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177. **On the influence of secondary branches on crack propagation in rolling contact fatigue** (***Open Access***)

Zaid, Mael (Airbus Helicopters, Aéroport International Marseille Provence, Marignane; 13700, France); Doquet, Véronique; Chiaruttini, Vincent; Depouhon, Pierre; Bonnand, Vincent; Pacou, Didier **Source:** *International Journal of Fatigue*, v 182, May 2024
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178. **A Study on the Damage Behavior of Hybrid 60 and 52100 Steel during Rolling Contact Fatigue**

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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179. **Observation of wear around surface crack of PEEK thrust bearing under rolling contact fatigue in water** (***Open Access***)

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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180. **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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181. 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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182. 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, Vattiyoorkavu, Trivandrum; 695013, India); Arivu, Y.; Kesavan, D.; Chakravarthy, P.; Narayana Murty, S.V.S. **Source:** *SSRN*, February 18, 2024
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183. Exploring the ultrahigh rolling contact fatigue life of M50 bearing steel by adjusting the cryogenic sequence (*Open Access*)

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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184. Review of rolling contact fatigue life calculation for oscillating bearings and application-dependent recommendations for use (*Open Access*)

Menck, Oliver (Fraunhofer Institute for Wind Energy Systems Iwes, Am Schleusengraben 22, Hamburg; 21029, Germany); Stammler, Matthias **Source:** *Wind Energy Science*, v 9, n 4, p 777-798, April 5, 2024
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185. Extended crack propagation in nitrided and carburised steels subject to rolling contact fatigue

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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186. Microstructure effects on improving rolling contact fatigue by a double-quenching heat treatment process for GCr15 steel

Zhang, Wenhu (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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187. **Rolling Contact Fatigue Life and Categorization of Failure in Experiment of Flat PEEK Race-Alumina Ball Bearings in Water Lubrication under 1700 N at 1000 rpm** (*Open Access*)

Matsubayashi, Soji (University of Toyama, Gofuku, Toyama; 3190, Japan); Kajiwara, Shuhei; Matsueda, Takahiro; Kida, Katsuyuki **Source:** *Journal of Physics: Conference Series*, v 2845, n 1, 2024
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188. **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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189. **Influence of MnS inclusion characteristics on generation of white etching cracks in 100Cr6 bearing steel**

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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190. **The Formation of White Etching Cracks Under Various Conditions in an Electrical Environment =**

Zurcher, Manuel (Friedrich-Alexander-Universitaet Erlangen-Nuernberg (Germany)) **Source:** *ProQuest Dissertations and Theses Global*, 2024
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191. **White etching area damage induced by shear localization in rolling contact fatigue of bearing steel**

Chen, Jin-Hua (School of Mechanical Engineering and Mechanics, Key Laboratory of Impact and Safety Engineering of Ministry of Education Ningbo University, Ningbo, China); C., Xie; S.-X., Li; S.-Y., Lu **Source:** *Fatigue and Fracture of Engineering Materials and Structures*, v 47, n 1, p 170-186, January 2024
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192. **Influence of additive-derived reaction layers on white etching crack failure of SAE 52100 bearing steel under rolling contact loading**

Steinweg, Florian (Institute for Materials Applications in Mechanical Engineering, RWTH Aachen University, Augustinerbach 4, Aachen; 52062, Germany); Mikitisin, Adrian; Janitzky, Thomas L.M.; Richter, Silvia; Weirich, Thomas E.; Mayer, Joachim; Broeckmann, Christoph **Source:** *Tribology International*, v 180, February 2023
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193. **Microstructure characteristics and formation mechanisms of white etching layer (WEL) and brown etching layer (BEL) on martensite bearing raceway** (*Open Access*)

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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194. **Simulation study of Rayleigh wave inspection of subsurface white etching crack in bearing rollers** (*Open Access*)

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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195. **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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196. **Multiscale modelling and simulation of subsurface carbide deformation during the formation of white etching areas**

Peela, Agastya (Institute for Materials Applications in Mechanical Engineering (IWM), RWTH Aachen University, Augustinerbach 4, Aachen; 52062, Germany); Spille, Joshua; Steinweg, Florian; Janitzky, Thomas; Schwedt, Alexander; Mayer, Joachim; Broeckmann, Christoph **Source:** *Wear*, v 512-513, January 15, 2023
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197. **Investigation on skidding behavior of a lubricated rolling bearing with fluid–solid-heat coupling effect**

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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198. **Investigation on Skidding Characteristics and Dynamic Responses of Rolling Element Bearing Under Thermal Elastohyrodynamic Lubrication**

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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199. **Study of Skidding and Friction Torque for a Deep Groove Ball Bearing in a Permanent Magnet Synchronous Motor**

Xu, Yajun (School of Marine Science and Technology, Northwestern Polytechnical University, Xi'an, China); Li, Xinbin; Liu, Jing **Source:** *Lecture Notes in Mechanical Engineering*, p 1797-1806, 2024, *Proceedings of the 2nd International Conference on Mechanical System Dynamics - ICMSD 2023*
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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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201. **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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202. **Influence of White Etching Bands Formation on Integrity of Rolling Element Bearings** (*Open Access*)

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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203. **Experimental research on heat treatment process and performance of GCr15 steel bearing ring for new energy vehicle drive motor**

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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204. **A nonlinear dynamic analysis of skidding behavior in rolling bearings using lubricant traction coefficients and cage flexibility**

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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205. **A study on the three key concepts of White Etching Crack failure mode in its very early stages - Contrast with different testing methods** (*Open Access*)

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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206. **Characteristics of vibration response of ball bearing with local defect considering skidding**

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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207. **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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208. **Skidding behavior of lubricated rolling element bearings under the influence of oil film and radial clearances** (*Open Access*)

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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209. **Roller Bearing Skidding for Aero-Engine Applications: All-Steel Versus Hybrid Bearings**

Dadouche, Azzedine (Aerospace Research Centre, National Research Council of Canada, Ottawa; ON; K1A 0R6, Canada); Kerrouche, Rami **Source:** *Journal of Engineering for Gas Turbines and Power*, v 145, n 1, February 1, 2023
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210. **Dynamic, thermal, and vibrational analysis of ball bearings with over-skidding behavior** (*Open Access*)

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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211. **Thoughts on a standardized FE-8 Test for the assessment of the WEC-carrying capacity of lubricants in rolling bearings**

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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212. **The effect of current and lambda on white-etch-crack failures** (*Open Access*)

Demas, Nicholaos 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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