Research outputs

Order spectrogram visualization for rolling bearing fault detection under speed variation conditions. / Wang, Yi; Tse, Peter W.; Tang, Baoping; Qin, Yi; Deng, Lei; Huang, Tao; Xu, Guanghua.
In: Mechanical Systems and Signal Processing, Vol. 122, 01.05.2019, p. 580-596.

Novel design of a smart and harmonized flexible printed coil sensor to enhance the ability to detect defects in pipes. / Tse, P.; Fang, Z.; Ng, K.

Demagnetization-based axial magnetized magnetostrictive patch transducers for locating defect in small-diameter pipes using the non-axisymmetric guided wave. / Fang, Zhou; Tse, Peter W.
In: Structural Health Monitoring, 05.03.2019.

A multi-sensor approach to remaining useful life estimation for a slurry pump. / Tse, Yiu L.; Cholette, Michael E.; Tse, Peter W.

Modeling of a horizontal asymmetric U-shaped vibration-based piezoelectric energy harvester (U-VPEH). / Sun, Shilong; Tse, Peter W.

Clustering by defining and merging candidates of cluster centers via independence and affinity. / Wang, Gaochao; Wei, Yiheng; Tse, Peter.

Investigating the critical aspects of evaluating the material nonlinearity in metal plates using Lamb waves: Theoretical and numerical approach. / Masurkar, Faeez; Tse, Peter W.; Yelve, Nitesh.

Axial magnetized patch for efficient transduction of longitudinal guided wave and defect identification in concrete-covered pipe risers. / Fang, Zhou; Tse, Peter W.

Kurtogram manifold learning and its application to rolling bearing weak signal detection. / Wang, Yi; Tse, Peter W.; Tang, Baoping; Qin, Yi; Deng, Lei; Huang, Tao.

Evaluation of inherent and dislocation induced material nonlinearity in metallic plates using Lamb waves. / Masurkar, Faeez; Tse, Peter; Yelve, Nitesh P.

Novel fault diagnosis for roller bearing by using multiscale sample entropy based clustering. / Tse, Peter W.

Theoretical and experimental evaluation of material nonlinearity in metal plates using Lamb waves. / Yelve, Nitesh P.; Tse, Peter W.; Masurkar, Faeez.
In: Structural Control and Health Monitoring, Vol. 25, No. 6, e2164, 06.2018.

A NOVEL DESIGN OF A MULTI-MODEL AND VIBRATION-BASED PIEZOELECTRIC ENERGY HARVESTER. / Tse, Peter W.; Sun, Shilong.

Numerical study on static component generation from the primary Lamb waves propagating in a plate with nonlinearity. / Wan, Xiang; Tse, Peter W.; Zhang, Xuhui; Xu, Guanghua; Zhang, Qing; Fan, Hongwei; Mao, Qinghua; Dong, Ming; Wang, Chuanwei; Ma, Hongwei. In: Smart Materials and Structures, Vol. 27, No. 4, 04.2018.


Second harmonic reflection and transmission from primary $S_0$ mode Lamb wave interacting with a localized microscale damage in a plate: A numerical perspective. / Wan, Xiang; Tse, Peter W.; Chen, Jingming; Xu, Guanghua; Zhang, Qing. In: Ultrasonics, Vol. 82, 01.01.2018, p. 57-71.


The use of $S_0$ mode Lamb waves generated at low frequency range for measuring the distribution of micro-cracks occurred in plate-like structures. / Tse, Peter W.; Wan, Xiang; Xu, Guanghua. 2017. 4th Annual Global Congress of Knowledge Economy-2017 (GCKE-2017), Qingdao, China.


The Design of a Novel Line-Array Type of Laser Source for Non-contact Guided Waves to Inspect the Integrity of Plates. / Tse, Peter W.; Chen, Jingming. Asset Intelligence through Integration and Interoperability and Contemporary Vibration Engineering Technologies: Proceedings of the 12th World Congress on Engineering Asset Management and the 13th International Conference on Vibration Engineering and Technology of Machinery. ed. / Joseph Mathew; C. W. Lim; Lin Ma; Don Sands; Michael E. Cholette; Pietro Borghesani. Springer, Cham, 2017. p. 633-641 (Lecture Notes in Mechanical Engineering).

The output feedback control synthesis for a class of singular fractional order systems. / Wei, Yiheng; Tse, Peter W.; Yao, Zhao; Wang, Yong.

Design and performance of a multimodal vibration-based energy harvester model for machine rotational frequencies. / Sun, Shilong; Tse, Peter W.

Sub-surface defects detection of by using active thermography and advanced image edge detection. / Tse, Peter W.; Wang, Gaochao.

Sparse and dispersion-based matching pursuit for minimizing the dispersion effect occurring when using guidedwave for pipe inspection. / Rostami, Javad; Tse, Peter W.T.; Fang, Zhou.

Fractional order adaptive backstepping output feedback control : The incommensurate case. / Wei, Yiheng; Tse, Peter W.; Sheng, Dian; Wang, Yong.

Condition Assessment for Pipes : Novel Guided Waves Inspection Technique and Innovative Sensors Pipes. / TSE, Wai Tat Peter.
2017. the 5th International Conference on Utility Management and Safety 2017 (5th ICUMAS 2017), Hong Kong, Hong Kong.

Detection of Hidden Corrosion in Pipes Carrying Gas into Hong Kong Residential Buildings by Ultrasonic Guided Waves and Advanced Signal Processing Technique. / ROSTAMI, Javad; TSE, Wai Tat Peter.
2017. the 5th International Conference on Utility Management and Safety 2017 (5ICUMAS 2017), Hong Kong, Hong Kong.

Recommended Certification Process for Education Programs and Training Schemes in Physical Asset Management. / TSE, Wai Tat Peter.
2017. the 5th International Conference on Utility Management and Safety 2017 (5th ICUMAS 2017), Hong Kong, Hong Kong.

Study of Piezoelectric Vibration Energy Harvester Design with Magneto Rheological Elastomers. / TSE, Wai Tat Peter; SUN, Shilong.
2017. the 5th International Conference on Utility Management and Safety 2017 (5th ICUMAS 2017), Hong Kong, Hong Kong.

A signal processing approach with a smooth empirical mode decomposition to reveal hidden trace of corrosion in highly contaminated guided wave signals for concrete-covered pipes. / Rostami, Javad; Chen, Jingming; Tae, Peter W.

An intelligent and improved density and distance-based clustering approach for industrial survey data classification. / Zhong, Jingjing; Tse, Peter W.; Wei, Yiheng.

State space formulation of nonlinear vibration responses collected from a dynamic rotor-bearing system : An extension of bearing diagnostics to bearing prognostics. / Tse, Peter W.; Wang, Dong.
Smart Data Mining System for Automatically Assessing the Performance in Engineering Asset Management. / TSE, Wai Tat Peter; ZHONG, Jingjing. 

An Enhanced Factor Analysis of Performance Degradation Assessment on Slurry Pump Impellers. / Sun, Shilong; Tse, Peter W.; Tse, Y. L. 

Defect detection of helical gears based on time–frequency analysis and using multi-layer fusion network. / Ebrahimi Orimi, H.; Esmaeili, M.; Refahi Oskouei, A.; Mirhadizadeh, S. A.; Tse, P. W. 

Novel Techniques to Reveal Defects Hidden in Wall-covered Building Risers. / TSE, Wai Tat Peter; ROSTAMI, Javad; CHEN, Jingming. 
2016. 146-155 the 7th Greater Pearl River Delta (GPRD) Conference on Building Operation and Maintenance - Smart Facilities Operation and Maintenance, Hong Kong, Hong Kong.

Novel Bayesian inference on optimal parameters of support vector machines and its application to industrial survey data classification. / Zhong, Jingjing; Tse, Peter W.; Wang, Dong. 

Extracting Defective Features from Noisy Guided-waves Signals that are Reflected by the Defects Located Inside the Concrete-covered Section of a Pipe. / TSE, Wai Tat Peter; ROSTAMI, Javad; CHEN, Jingming. 

Adaptive backstepping output feedback control for a class of nonlinear fractional order systems. / Wei, Yiheng; Tse, Peter W.; Yao, Zhao; Wang, Yong. 

An innovative fixed-pole numerical approximation for fractional order systems. / Wei, Yiheng; Tse, Peter W.; Du, B; Wang, Yong. 

Prediction of Hydrodynamic bearing performance based on effective parameters by Neural Network. / Esmaeili, Mohsen; Oskouei, Amir Refahi; Mirhadizadeh, Seyed Ali; TSE, Wai Tat; Hoshyar, N. 

Analytical and numerical studies of approximate phase velocity matching based nonlinear S0 mode Lamb waves for the detection of evenly distributed microstructural changes. / Wan, X.; Tse, P. W.; Xu, G. H.; Tao, T. F.; Zhang, Q. 
In: Smart Materials and Structures, Vol. 25, No. 4, 45023, 14.03.2016.

A critical study of different dimensionality reduction methods for gear crack degradation assessment under different operating conditions. / Wan, Xiang; Wang, Dong; Tse, Peter W.; Xu, Guanghua; Zhang, Qing. 

A quantitative method for evaluating numerical simulation accuracy of time-transient Lamb wave propagation with its applications to selecting appropriate element size and time step. / Wan, Xiang; Xu, Guanghua; Zhang, Qing; Tse, Peter W.; Tan, Haihui. 
In: Ultrasonics, Vol. 64, 01.01.2016, p. 25-42.

Criteria for Providing Qualified Asset and Maintenance Management based Training and Education Programs. / TSE, Wai Tat. 
2015. 73-78 The 6th Greater Pearl River Delta Conference on Building Operation and Maintenance, China.
The design of a web-based and intelligent system to automatically evaluate the performance of small- and medium-sized enterprises in physical asset management. / TSE, Wai Tat; ZHONG, JingJing; FUNG, Samuel.
2015. 1-1 The 6th Greater Pearl River Delta Conference on Building Operating and Maintenance, China.

Advanced Signal Processing Methods Applied to Guided Waves for Wire Rope Defect Detection. / Tse, Peter W.; Rostami, Javad.

Investigation on Empowering One Direction Emission of Guided Waves to Avoid Undesired Reflections from Other Pipe Attachments. / Tse, Peter W.; Zhou, Fang.

Prognostics of slurry pumps based on a moving-average wear degradation index and a general sequential Monte Carlo method. / Wang, Dong; Tse, Peter W.
In: Mechanical Systems and Signal Processing, Vol. 56, 01.05.2015, p. 213-229.

Remaining useful life estimation for mechanical systems based on similarity of phase space trajectory. / Zhang, Qing; Tse, Peter Wai-Tat; Wan, Xiang; Xu, Guanghua.

Guided-waves Technique for Inspecting the Health of Wall-covered Building Risers. / TSE, Wai Tat; Chen, J. M.; Wan, X.

A Fusion Approach with Application to Oil Sand Pump Prognostics. / Tse, Peter W.; Hu, Jinfei.

A general sequential Monte Carlo method based optimal wavelet filter : A Bayesian approach for extracting bearing fault features. / Wang, Dong; Sun, Shilong; Tse, Peter W.

Criteria and Performance Survey in Applying PAS 55 to Hong Kong Buildings and Plants. / Fung, Samuel K.S.; Tse, Peter W.

Distance-based analysis of dynamical systems reconstructed from vibrations for bearing diagnostics. / Ng, Selina S. Y.; Cabrera, Javier; Tse, Peter W. T.; Chen, Allison H.; Tsui, Kwok L.

Effective guided wave technique for performing non-destructive inspection on steel wire ropes that hoist elevators. / Tse, Peter W.; Chen, J. M.

FEM Simulation of Nonlinear Lamb Waves for Detecting a Micro-Crack in a Metallic Plate. / Wan, Xiang; Tse, Peter W.; Xu, Guanghua; Tao, Tangfei; Liu, Fei; Chen, Xiaoguang; Zhang, Qing.

Implementing Engineering Asset Management Standards (PAS-55) in Information Management Evaluation: Case Study in Hong Kong. / Tse, Peter W.; Zhong, Jingjing; Fung, Samuel.

Performance Degradation Assessment of Slurry Pumps. / Tse, Peter W.; Wang, Dong.

Principal Components of Superhigh-Dimensional Statistical Features and Support Vector Machine for Improving Identification Accuracies of Different Gear Crack Levels under Different Working Conditions. / Wang, Dong; Tsui, Kwok-Leung; Tse, Peter W.; Zuo, Ming J.

Remaining useful life estimation of slurry pumps using the health status probability estimation provided by support vector machine. / Tse, Peter W.; Shen, Changqing.
Engineering Asset Management - Systems, Professional Practices and Certification. ed. / Peter W. Tse; Joseph Mathew; King Wong; Rocky Lam; C.N. Ko. Switzerland : Springer International Publishing Switzerland, 2015. p. 87-98 (Lecture Notes in Mechanical Engineering).

The Design of a MRE-based Nonlinear Broadband Energy Harvester. / Tse, Peter W.; Wang, M.L.

Extraction of Principal Components from Multiple Statistical Features for Slurry Pump Performance Degradation Assessment. / Tse, Peter W.; Wang, Dong.
A low-cost and effective automobile engine fault diagnosis using instantaneous angular velocity evaluation. / Tse, Yiu Lun; TSE, Wai Tat.

Numerical simulation of nonlinear lamb waves used in a thin plate for detecting buried micro-cracks. / Wan, Xiang; Zhang, Qing; Xu, Guanghua; Tse, Peter W.
In: Sensors (Switzerland), Vol. 14, No. 5, 15.05.2014, p. 8528-8546.

Prediction of remaining useful life of slurry pumps using Bayesian inference. / TSE, Wai Tat; Wang, Dong.
2014. 3rd International Congress on Natural Sciences and Engineering, Japan.

Recognition of rolling bearing fault patterns and sizes based on two-layer support vector regression machines. / Shen, Changqing; Wang, Dong; Liu, Yongbin; Kong, Fanrang; Tse, Peter W.

A one-versus-all class binarization strategy for bearing diagnostics of concurrent defects. / Ng, Selina S. Y.; Tse, Peter W.; Tsui, Kwok L.

A bayesian framework of computing and updating wavelet parameter distributions for identifying early bearing faults. / Tse, Peter W.; Wang, Dong.

An enhanced empirical mode decomposition method for blind component separation of a single-channel vibration signal mixture. / Wang, Dong; Guo, Wei; Tse, Peter W.

A novel adaptive wavelet stripping algorithm for extracting the transients caused by bearing localized faults. / Wang, Dong; Shen, Changqing; Tse, Peter W.

A Doppler transient model based on the laplace wavelet and spectrum correlation assessment for locomotive bearing fault diagnosis. / Shen, Changqing; Liu, Fang; Wang, Dong; Zhang, Ao; Kong, Fanrang; Tse, Peter W.
In: Sensors (Switzerland), Vol. 13, No. 11, 18.11.2013, p. 15726-15746.

The automatic selection of an optimal wavelet filter and its enhancement by the new sparsogram for bearing fault detection : Part 2 of the two related manuscripts that have a joint title as "two automatic vibration-based fault diagnostic methods using the novel sparsity measurement - Parts 1 and 2". / Tse, Peter W.; Wang, Dong.

The design of a new sparsogram for fast bearing fault diagnosis : Part 1 of the two related manuscripts that have a joint title as "two automatic vibration-based fault diagnostic methods using the novel sparsity measurement - Parts 1 and 2". / Tse, Peter W.; Wang, Dong.

Congress Handbook of the 8th World Congress on Engineering Asset Management (WCEAM) & the 3rd International Conference on Utility Management & Safety (ICUMAS). / LAM, Rocky (Editor); TSE, Wai Tat (Editor); WONG, King (Editor).

A Relevance Vector Machine-Based Approach with Application to Oil Sand Pump Prognostics. / Hu, Jinfei; Tse, Peter W.
In: Sensors (Switzerland), Vol. 13, No. 9, 09.2013, p. 12663-12686.
Lift Ropes and Building Gas Pipes Quality Inspection by Using Smart Sensors and Advanced Guided Waves. / Tse, Peter W.

A fast and adaptive varying-scale morphological analysis method for rolling element bearing fault diagnosis. / Shen, Changqing; He, Qingbo; Kong, Fanrang; Tse, Peter W.

Fabrication and testing of an energy-harvesting hydraulic damper. / Li, Chuan; Tse, Peter W.
In: Smart Materials and Structures, Vol. 22, No. 6, 65024, 06.2013.

Fault diagnosis of rotating machinery based on the statistical parameters of wavelet packet paving and a generic support vector regressive classifier. / Shen, Changqing; Wang, Dong; Kong, Fanrang; Tse, Peter W.

An enhanced Kurtogram method for fault diagnosis of rolling element bearings. / Wang, Dong; Tse, Peter W.; Tsui, Kwok Leung.

A novel signal compression method based on optimal ensemble empirical mode decomposition for bearing vibration signals. / Guo, Wei; Tse, Peter W.

Characterization of pipeline defect in guided-waves based inspection through matching pursuit with the optimized dictionary. / Tse, Peter W.; Wang, Xiaojuan.

Magneto-rheological-based Energy Harvester for Converting Destructive Vibration to Useful Electricity. / TSE, Wai Tat; lam, c; HU, J F.
2012. 3rd Greater Pearl River Delta Conference on Building Operation and Maintenance, China.

A new blind fault component separation algorithm for a single-channel mechanical signal mixture. / Wang, Dong; Tse, Peter W.

A Multivariate Control Chart for Detecting a Possible Outbreak of Disease. / TSE, Wai Tat; Hu, J F; Shrivastava, A K; Tsui, K L.
2012. the 7th World Congress on Engineering Asset Management (WCEAM 2012), Korea, Republic of.

Corrosion Identification of Gas Pipe Risers in Buildings Using Advanced Ultrasonic Guided Waves. / TSE, Wai Tat; wang, x.
2012. the 7th World Congress on Engineering Asset Management (WCEAM 2012), Korea, Republic of.

Numerical simulation on propagation characteristics of low frequency longitudinal guided wave modes in steel floral pipes. / Wu, Bin; Xie, Xiaodong; Tse, W Peter; Li, Yuhao; Liu, Zenghua; He, Cunfu.
Experiment research on propagation characteristics of low frequency ultrasonic longitudinal guided waves in steel floral pipes. / Wu, Bin; Xie, Xiao-Dong; Li, Yu-Hao; Liu, Zeng-Hua; He, Cun-Fu; Tse, W Peter.

A morphogram with the optimal selection of parameters used in morphological analysis for enhancing the ability in bearing fault diagnosis. / Wang, Dong; Tse, Peter W; Tse, Yiu L.
In: Measurement Science and Technology, Vol. 23, No. 6, 65001, 06.2012.

Faulty bearing signal recovery from large noise using a hybrid method based on spectral kurtosis and ensemble empirical mode decomposition. / Guo, Wei; Tse, Peter W.; Djordjevich, Alexandar.

A new method based on ultrasonic guided wave inspection and matching pursuit for evaluating the axial severity of pipeline defect. / TSE, Wai Tat; WANG, Xiaojuan.
2012. Acoustics 2012 Hong Kong, China.


Process parameters selection for laser polishing DF2 (AISI O1) by Nd : YAG pulsed laser using orthogonal design. / Guo, Wei; Hua, Meng; Tse, Peter Wai-Tat; Mok, Albert Chiu Kam.

2aSA1. A new method based on ultrasonic guided wave inspection and matching pursuit for evaluating the axial severity of pipeline defect. / Tse, Peter W.; Wang, Xiaojuan.

An ensemble empirical mode decomposition-based lossy signal compression method for a remote and wireless bearing condition monitoring system. / Tse, Peter W.; Guo, Wei.

Effective techniques for assessing the safety of building structures with the emphasis on lift ropes and pipes. / Tse, Peter W.

Ensemble of unsupervised fuzzy C-means classifiers for clustering health status of oil sand pumps. / Di Maio, F.; Zio, E.; Pecht, M.; Tse, P.; Tsui, K.

Morphogram : A simple and useful way to determine the optimal length of flat SE used in morphological analysis for bearing fault feature extraction. / Wang, Dong; Tse, Peter W.

On-road mobile phone based automobile safety system with emphasis on engine health evaluation and expert advice. / Tse, Peter W.; Tse, Y. L.

Innovative and Flexible Magnetostrictive Sensor for Steel Rope Defect Inspection. / TSE, Peter W. T.; LIU, Xiucheng; WANG, Xiaojuan.
2011. 447-453 14th Asia Pacific Vibration Conference (APVC 2011), Hong Kong, China.


Determination of the width of the output angular power distribution in step-index multimode optical fibers. / Savović, Svetislav; Djordjevich, Alexandar; Tse, Peter W.; Zubia, Joseba; Mateo, Javier; Losada, M. Angeles. In: Journal of Optics, Vol. 12, No. 11, 115405, 11.2010.


A Fault Diagnosis Approach for Rolling Bearing Based on Ensemble Empirical Mode Decomposition. / TSE, Wat Tat; Guo, W. 2010. 797-800 23rd International Congress on Condition Monitoring and Diagnostic Engineering Management (COMADEM 2010), Nara, Japan.

Application of mother wavelet functions for automatic gear and bearing fault diagnosis. / Rafiee, J.; Rafiee, M. A.; Tse, P. W.

Experimental investigation of reflection in guided wave-based inspection for the characterization of pipeline defects. / Wang, Xiaojuan; Tse, Peter W.; Mechefske, Chris K.; Hua, Meng.

EMD-based fault diagnosis for abnormal clearance between contacting components in a diesel engine. / Li, Yujun; Tse, Peter W.; Yang, Xin; Yang, Jianguo.

ADVANCED SYSTEM FOR AUTOMATICALLY DETECTING FAULTS OCCURRING IN BEARINGS. / Tse, Peter W.; Leung, Jacko T.

Automatic generator health assessment system that embedded with advanced fault diagnosis and expert system. / Tse, Peter W.; Li, Eugene Y.; Chan, Jeffrey C.; Leung, Jacko T.

Enhancing the ability of ensemble empirical mode decomposition in machine fault diagnosis. / Guo, Wei; Tse, Peter W.

Parameter estimation of guided-wave reflection signal for quantitative characterization of defect in pipeline. / Wang, Xiaojuan; Tse, Peter W.

Advancement in Condition Monitoring and Its Management. / TSE, Wai Tat.
2009. Building Management Systems: Modern Application, Education and Training Developments in China(Mainland), Hong Kong and Macau, China.

The revelation of propagating ultrasonic guided waves through simulation when they encountered defects in a pipe. / Tang, S.; Tse, P.; Wang, X.

Use of autocorrelation of wavelet coefficients for fault diagnosis. / Rafiee, J.; Tse, P. W.

A novel technique for selecting mother wavelet function using an intelligent fault diagnosis system. / Rafiee, J.; Tse, P. W.; Harifi, A.; Sadeghi, M. H.

Application of ultrasonic guided waves to quantitative characterization of defects in pipeline. / TSE, Peter W.; Wang, X.

Application of Daubechines 44 in Machine Fault Diagnostics. / Rafiee, J.; Rafiee, M. A.; Prause, N.; Tse, P. W.

A novel, fast, reliable data transmission algorithm for wireless machine health monitoring. / Chan, Jeffrey C.; Tse, Peter W.
Automatic frequency extraction using sinusoidal approximation and wavelet transform. / Rafiee, J.; Rafiee, M. A.; Prause, N.; Tse, P. W.

Semi-quantitative analysis of defect in pipelines through the use of technique of ultrasonic guided waves. / Tse, Peter W.; Wang, Xiaojuan.

Development of a Generator Health-Monitoring and Performance-Enhancement System. / TSE, P.; Li, Y.

A Novel Data Compression Algorithm using Empirical Mode Decomposition for Wireless Machine Monitoring Data Transmission. / Chan, J.; TSE, P.

The Algorithm for Defect Characterization in Guided Wave Based Pipeline Inspection. / Wang, X.; TSE, P.

基于盲均衡理论的弱冲击故障的检测研究. / 张金玉黄先祥谢伟达.
In: Jixie Kexue Yu Jishu/Mechanical Science and Technology, Vol. 27, No. 8, 08.2008, p. 996-999.

机械信号处理的BSS算法及其比较研究. / 张金玉黄先祥谢伟达.

Recovery of vibration signal based on a super-exponential algorithm. / Li, Yujun; Tse, Peter W.; Wang, Xiaojuan.

Characterize the pipeline damage caused by corrosion through the use of ultrasonic guided waves. / Wang, X. J.; Tse, Peter W.

Enhanced eigenvector algorithm for recovering multiple sources of vibration signals in machine fault diagnosis. / Tse, P. W.; Gontarz, S.; Wang, X. J.

Recent Trend in the Use of Guided-Waves for Inspecting Pipeline Defects. / WANG, X J; TSE, Wai Tat.

An Economical Engineering Monitoring System with Embedded Advanced Fault Diagnostic Features. / Leung, Jacko T.C.; Tse, Peter W.

Singularity analysis of the vibration signals by means of wavelet modulus maximal method. / Peng, Z. K.; Chu, F. L.; Tse, Peter W.

Remote machine maintenance system through Internet and mobile communication. / Wang, Wanbin; Tse, Peter W.; Lee, Jay.
The use of cylindrical guided waves for inspecting defects in surface/buried pipelines. / Tse, Peter.
In: Hong Kong Engineer, Vol. 34, No. 12, 12.2006, p. 17.

Blind source separation and blind equalization algorithms for mechanical signal separation and identification. / Tse, Peter W.; Zhang, J. Y.; Wang, X. J.

A sophisticated but easy-to-use and cost-effective machine condition monitoring and degration prediction system. / Tse, Peter W.; Leung, Jacko T.

Blind equalization based eigenvector algorithm for the recovery of mechanical vibrations. / Tse, Peter W.; Gontarz, Szymon W.; Wang, Xiaojuan.

Remote machine monitoring through mobile phone, smartphone or pda. / Wanbin, W.; Tse, P. W.

Security considerations for modern web-based maintenance or remote sensing system. / Cheuk, Alan N.; Tse, Peter W.

A comparison study of improved Hilbert-Huang transform and wavelet transform : Application to fault diagnosis for rolling bearing. / Peng, Z. K.; Tse, Peter W.; Chu, F. L.

Effective Architecture for Web-Based Maintenance System and Its Security. / Cheuk, Alan N.; Leung, Jacko T.; Tse, Peter W.

An improved Hilbert-Huang transform and its application in vibration signal analysis. / Peng, Z. K.; Tse, Peter W.; Chu, F. L.

An advanced strategy for detecting Impulses in mechanical signals. / Yang, Wen-Xian; Tse, Peter W.

Detection of the rubbing-caused impacts for rotor-stator fault diagnosis using reassigned scalogram. / Peng, Z. K.; Chu, F. L.; Tse, Peter W.

Applying six sigma to software quality management. / Wang, Wanbin; Tse, Peter W.

Remote machine monitoring through internet and mobile communication using XML. / Wang, Wanbin; Tse, Peter W.

Smart asset maintenance system for machine fault diagnosis - Its effectiveness, methodology, and applications. / Leung, Jacko T.; Tse, Peter W.
Machine fault diagnosis through an effective exact wavelet analysis. / Tse, Peter W.; Yang, Wen-Xian; Tam, H. Y.

Remote sensing, diagnosis and collaborative maintenance with Web-enabled virtual instruments and mini-servers. / Wang, J. F.; Tse, Peter W.; He, L. S.; Yeung, Ricky W.

Extraction of patch-induced Lamb waves using a wavelet transform. / Ip, K. H.; Tse, Peter W.; Tam, H. Y.

Classification of gear faults using cumulants and the radial basis function network. / Wuxing, Lai; Tse, Peter W.; Guicai, Zhang; Tielin, Shi.

Development of an advanced noise reduction method for vibration analysis based on singular value decomposition. / Yang, Wen-Xian; Tse, Peter W.

An algorithm for the interpolation of hybrid curves. / Tam, Hon-Yuen; Xu, Haiyin; Tse, Peter W.

The use of blind-source-separation algorithm for mechanical signal separation and machine fault diagnosis. / Tse, Peter W.; Zhang, Jinyu.
American Society of Mechanical Engineers (Publication) NDE. Vol. 24 American Society of Mechanical Engineers (ASME), 2003. p. 57-63.

Maintenance practices in Hong Kong and the use of the intelligent scheduler. / Tse, Peter W.

Wavelet analysis and envelope detection for rolling element bearing fault diagnosis - Their effectiveness and flexibilities. / Tse, Peter W.; Peng, Y. H.; Yam, Richard.

A comprehensive reliability allocation method for design of CNC lathes. / Wang, Yiqiang; Yam, Richard C.M.; Zuo, Ming J.; Tse, Peter.

An Effective and Portable Electronic Stethoscope for Fault Diagnosis by Analysing Machine Running Sound Directly. / Tse, Peter W.; Xu, Guang H.; Qu, Langsheng; Kumara, Soundar R.

An integrated maintenance management system for an advanced manufacturing company. / Tu, P. Y L; Yam, R.; Tse, P.; Sun, A. O.

Can wavelet transforms used for data compression equally suitable for the use of machine fault diagnosis? / Tse, Peter W.; He, Ling S.
Intelligent predictive decision support system for condition-based maintenance. / Yam, R. C M; Tse, P. W.; Li, L.; Tu, P.


Web and virtual instrument based machine remote sensing, monitoring and fault diagnostic system. / Tse, Peter W.; He, Ling S.

Inductive Learning of Fuzzy Classification Rules for Machine Fault Diagnosis. / PENG, Yong-hong; CHEN, Tong-jian; TSE, P W.
In: Huanan Ligong Daxue Xuebao/Journal of South China University of Technology (Natural Science), Vol. 28, No. 12, 12.2000, p. 100-106.

Enhancement of maintenance management through benchmarking. / Yam, Richard C. M.; Tse, Peter; Ling, Li; Fung, Francis.

Knowledge extension and fault recovery of feed-forward neural networks. / Shi, Jun; Chen, Youping; Tse, Peter Wai-Tat.


WAVELET PACKET AND FUZZY NEURAL NETWORK FOR TOOL CONDITION MONITORING. / Peng, Yonghong; Chen, Tongjian; Tse, Peter W.


Harmony theory yields robust machine fault-diagnostic systems based on learning vector quantization classifiers. / Tse, Peter; Wang, D. D.; Atherton, Derek.

A Hybrid Neural Networks based Machine Condition Forecaster and Classifier by using Multiple Vibration Parameters. / Tse, Peter; Wang, D.D.

Fuzzy mobile robot navigation and sensor integration. / Chee, Bing Yung; Lang, Sherman Y T; Tse, Peter W T.

Improving Learning Vector Quantization Classifier in Machine Fault Diagnosis by Adding Consistency. / Tse, Peter; WANG, D.D.; Atherton, Derek.

Precision measurement of heat transfer data of anisotropic materials. / Leung, Sai Wing; Leung, Raymond M W; Tse, Peter W.
Simulation of model reference adaptive control used in high speed hydraulic and pneumatic driven system, / Tse, Peter, Leung, S. W.