

Marc Mt Thomas

List of Publications by Year in descending order

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76
papers

2,070
citations

236925

25
h-index

254184

43
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82
all docs

82
docs citations

82
times ranked

1778
citing authors

#	ARTICLE	IF	CITATIONS
1	Predicting the quality of a machined workpiece with a variational autoencoder approach. <i>Journal of Intelligent Manufacturing</i> , 2023, 34, 719-737.	7.3	14
2	Dimension reduction and 2D-visualization for early change of state detection in a machining process with a variational autoencoder approach. <i>International Journal of Advanced Manufacturing Technology</i> , 2020, 111, 3597-3611.	3.0	21
3	Specific cutting energy: a physical measurement for representing tool wear. <i>International Journal of Advanced Manufacturing Technology</i> , 2019, 103, 101-110.	3.0	14
4	Analytical analysis of a rigid rotor mounted on three hydrostatic pads lubricated with micropolar fluids. <i>Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology</i> , 2019, 233, 859-869.	1.8	2
5	Performance analysis of four-pad hydrostatic squeeze film dampers loaded between pads under laminar and turbulent flow conditions. <i>Tribology - Materials, Surfaces and Interfaces</i> , 2018, 12, 59-70.	1.4	5
6	Numerical analysis of a rigid rotor mounted on four-pad hydrostatic squeeze film damper lubricated with micropolar lubricant. <i>Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology</i> , 2018, 232, 513-524.	1.8	5
7	Extraction of modal parameters for identification of time-varying systems using data-driven stochastic subspace identification. <i>JVC/Journal of Vibration and Control</i> , 2018, 24, 4781-4796.	2.6	20
8	Design of a Vibration Isolator for the Inertial Navigation System of an Autopilot Dedicated to the Operation of Light Drones. , 2018, , .		3
9	A Frequency-Weighted Energy Operator and complementary ensemble empirical mode decomposition for bearing fault detection. <i>Mechanical Systems and Signal Processing</i> , 2017, 82, 103-116.	8.0	116
10	Application of adaptable functional series vector time-dependent autoregressive model for extraction of real modal parameters for identification of time-varying systems. <i>Measurement: Journal of the International Measurement Confederation</i> , 2017, 103, 143-156.	5.0	9
11	Pressure distribution in orifice-compensated turbulent hydrostatic bearing with fluid inertia effects using numerical simulations via Navier-Stokes. <i>Tribology - Materials, Surfaces and Interfaces</i> , 2017, 11, 19-29.	1.4	2
12	Performance characteristics of a three-pad hydrostatic squeeze film damper compensated with new electrorheological valve restrictors. <i>Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology</i> , 2017, 231, 889-899.	1.8	10
13	Faulty bearing features by variational mode decomposition. <i>Vibroengineering PROCEDIA</i> , 2017, 16, 29-34.	0.5	1
14	Output-only identification of modal shape coupling in a flexible robot by vector autoregressive modeling. <i>Mechanism and Machine Theory</i> , 2016, 97, 141-154.	4.5	12
15	Bearing fault detection using motor current signal analysis based on wavelet packet decomposition and Hilbert envelope. <i>MATEC Web of Conferences</i> , 2015, 20, 03002.	0.2	3
16	Spectrum construction for non stationary vibration: Application to a moving flexible robot. <i>MATEC Web of Conferences</i> , 2015, 20, 01004.	0.2	0
17	Complexity based on synchrosqueezing analysis in gear diagnosis. <i>Mechanics and Industry</i> , 2015, 16, 508.	1.3	1
18	A hybrid method combining Teager Kaiser energy operator, empirical mode decomposition and minimum entropy deconvolution for monitoring gears damages. <i>Mechanics and Industry</i> , 2015, 16, 610.	1.3	5

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19	Monitoring gears by vibration measurements: Lempel-Ziv complexity and Approximate Entropy as diagnostic tools. MATEC Web of Conferences, 2015, 20, 07001.	0.2	3
20	Nonlinear Parameters for Monitoring Gear: Comparison Between Lempel-Ziv, Approximate Entropy, and Sample Entropy Complexity. Shock and Vibration, 2015, 2015, 1-12.	0.6	14
21	Experimental Shock and Vibration Analysis. Shock and Vibration, 2015, 2015, 1-1.	0.6	0
22	Chatter detection in milling machines by neural network classification and feature selection. JVC/Journal of Vibration and Control, 2015, 21, 1251-1266.	2.6	93
23	Modeling and monitoring of tooth fillet crack growth in dynamic simulation of spur gear set. Journal of Sound and Vibration, 2015, 343, 144-165.	3.9	13
24	Uncertainties on modal parameters by operational modal analysis. Mechanics and Industry, 2014, 15, 153-158.	1.3	11
25	Monitoring Machines by Using a Hybrid Method Combining MED, EMD, and TKEO. Advances in Acoustics and Vibration, 2014, 2014, 1-10.	0.5	15
26	Angular analysis of the cyclic impacting oscillations in a robotic grinding process. Mechanical Systems and Signal Processing, 2014, 44, 160-176.	8.0	21
27	Empirical Mode Decomposition of Acoustic Emission for Early Detection of Bearing Defects. Lecture Notes in Mechanical Engineering, 2014, , 367-377.	0.4	9
28	Cyclostationarity approach for monitoring chatter and tool wear in high speed milling. Mechanical Systems and Signal Processing, 2014, 44, 177-198.	8.0	96
29	Indicators for monitoring chatter in milling based on instantaneous angular speeds. Mechanical Systems and Signal Processing, 2014, 44, 72-85.	8.0	94
30	Control of phases by ESPRIT and WLSE methods for the early detection of gear cracks. Mechanics and Industry, 2014, 15, 487-495.	1.3	3
31	Harmonic and modal frequency discrimination in time domain operational modal analysis. Mechanics and Industry, 2014, 15, 29-37.	1.3	5
32	Nonlinear Dynamic Analysis of a Rigid Rotor Supported by a Three-Pad Hydrostatic Squeeze Film Dampers. Tribology Transactions, 2013, 56, 717-727.	2.0	16
33	Towards an automatic spectral and modal identification from operational modal analysis. Journal of Sound and Vibration, 2013, 332, 213-227.	3.9	33
34	A classifier fusion system for bearing fault diagnosis. Expert Systems With Applications, 2013, 40, 6788-6797.	7.6	44
35	Nonlinear Dynamic Behavior of a Flexible Shaft Supported by Smart Hydrostatic Squeeze Film Dampers. Journal of Tribology, 2013, 135, .	1.9	11
36	Application of Time Descriptors to the Modified Hilbert Transform of Empirical Mode Decomposition for Early Detection of Gear Defects. , 2012, , 471-479.		3

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37	Detecting bearing defects under high noise levels: A classifier fusion approach. , 2012, , .		4
38	Cyclostationarity analysis of instantaneous angular speeds for monitoring chatter in high speed milling. , 2012, , .		2
39	Nonlinear damping calculation in cylindrical gear dynamic modeling. Journal of Sound and Vibration, 2012, 331, 2110-2128.	3.9	52
40	Variable Drive Frequency Effect on Spindle Dynamic Behavior in High Speed Machining. , 2012, , 547-554.		1
41	Reformed austenite transformation during fatigue crack propagation of 13%Crâ€“4%Ni stainless steel. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2011, 528, 6519-6526.	5.6	30
42	Operational modal analysis by updating autoregressive model. Mechanical Systems and Signal Processing, 2011, 25, 1028-1044.	8.0	49
43	A Design of Experiments for Statistically Predicting Risk of Adverse Health Effects on Drivers Exposed to Vertical Vibrations. International Journal of Occupational Safety and Ergonomics, 2011, 17, 221-232.	1.9	6
44	Residual stress characterization in low transformation temperature 13%Crâ€“4%Ni stainless steel weld by neutron diffraction and the contour method. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2010, 527, 6205-6210.	5.6	78
45	Numerical modeling of vibrothermography based on plastic deformation. NDT and E International, 2010, 43, 476-483.	3.7	26
46	A quasiâ€“Bingham model for predicting electrorheological fluid behaviour. Multidiscipline Modeling in Materials and Structures, 2010, 6, 141-165.	1.3	8
47	An experimental investigation of the dielectric properties of electrorheological fluids. Smart Materials and Structures, 2009, 18, 024004.	3.5	12
48	Numerical modeling of frictional heating based vibrothermography. Proceedings of SPIE, 2009, , .	0.8	1
49	Frictional heating model for efficient use of vibrothermography. NDT and E International, 2009, 42, 345-352.	3.7	54
50	Residual stress and microstructure in welds of 13%Crâ€“4%Ni martensitic stainless steel. Journal of Materials Processing Technology, 2009, 209, 2195-2202.	6.3	99
51	Evaluation of lumbar vertebra injury risk to the seated human body when exposed to vertical vibration. Journal of Sound and Vibration, 2009, 321, 454-470.	3.9	31
52	Prediction of the response of a thin structure subjected to a turbulent boundary-layer-induced random pressure field. Journal of Sound and Vibration, 2009, 328, 109-128.	3.9	11
53	Critical Velocity of Potential Flow in Interaction With a System of Plates. , 2009, , .		0
54	An electrorheological hydrostatic journal bearing for controlling rotor vibration. Computers and Structures, 2008, 86, 463-472.	4.4	59

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55	Three-dimensional modeling of curved structures containing and/or submerged in fluid. Finite Elements in Analysis and Design, 2008, 44, 334-345.	3.2	18
56	Vibration analysis of rectangular plates coupled with fluid. Applied Mathematical Modelling, 2008, 32, 2570-2586.	4.2	132
57	Nonlinear Dynamic Behavior of a Rigid Rotor Supported by Hydrostatic Squeeze Film Dampers. Journal of Tribology, 2008, 130, .	1.9	15
58	Experimental investigation of dielectric properties on electrorheological fluids. Proceedings of SPIE, 2007, , .	0.8	0
59	Equivalent Stiffness and Damping Investigation of a Hydrostatic Journal Bearing. Tribology Transactions, 2007, 50, 257-267.	2.0	33
60	A Numerical Model to Predict Damaged Bearing Vibrations. JVC/Journal of Vibration and Control, 2007, 13, 1603-1628.	2.6	127
61	Hybrid method for vibration analysis of rectangular plates. Nuclear Engineering and Design, 2007, 237, 791-801.	1.7	14
62	An innovative magnetorheological damper for automotive suspension: from design to experimental characterization. Smart Materials and Structures, 2005, 14, 811-822.	3.5	90
63	Turbomachinery Blade Modal Analysis Using Contact Elements. , 2004, , .		1
64	Statistical investigation of modal parameters of cutting tools in dry turning. International Journal of Machine Tools and Manufacture, 2003, 43, 1093-1106.	13.4	59
65	On the design and testing of a smart car damper based on electro-rheological technology. Smart Materials and Structures, 2003, 12, 873-880.	3.5	9
66	MORE DETAILS ABOUT THE INTERACTION OF FORCED AND PARAMETRIC RESONANCES ARISING FROM IN-PLANE EXCITATION OF IMPERFECT RECTANGULAR PLATES. Journal of Sound and Vibration, 2001, 243, 503-524.	3.9	1
67	ASSESSMENT OF OPTIMAL ARMA MODEL ORDERS FOR MODAL ANALYSIS. Mechanical Systems and Signal Processing, 1999, 13, 803-819.	8.0	14
68	ARMA MODELS FOR MODAL ANALYSIS: EFFECT OF MODEL ORDERS AND SAMPLING FREQUENCY. Mechanical Systems and Signal Processing, 1999, 13, 925-941.	8.0	16
69	Development of a new frequency weighting filter for the assessment of grinder exposure to wrist-transmitted vibration. Computers and Industrial Engineering, 1998, 35, 651-654.	6.3	13
70	An experimental design for surface roughness and built-up edge formation in lathe dry turning. International Journal of Quality Science, 1997, 2, 167-180.	0.3	44
71	Psychophysical measurements as an effective way of evaluating climbability of wood treated utility poles. Computers and Industrial Engineering, 1997, 33, 513-516.	6.3	6
72	DYNAMIC RESPONSE OBTAINED BY DIRECT NUMERICAL INTEGRATION FOR PRE-DEFORMED RECTANGULAR PLATES SUBJECTED TO IN-PLANE LOADING. Journal of Sound and Vibration, 1996, 197, 67-83.	3.9	4

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73	Investigation of cutting parameter effects on surface roughness in lathe boring operation by use of a full factorial design. Computers and Industrial Engineering, 1996, 31, 645-651.	6.3	32
74	Effect of tool vibrations on surface roughness during lathe dry turning process. Computers and Industrial Engineering, 1996, 31, 637-644.	6.3	83
75	Comparison of a full factorial experiment to fractional and taguchi designs in a lathe dry turning operation. Computers and Industrial Engineering, 1994, 27, 59-62.	6.3	45
76	Robotic High Speed Machining of Aluminum Alloys. Advanced Materials Research, 0, 188, 584-589.	0.3	21