Fook Fah Yap

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/8029264/publications.pdf

Version: 2024-02-01

59 papers	1,195 citations	566801 15 h-index	395343 33 g-index
59 all docs	59 docs citations	59 times ranked	804 citing authors

#	Article	IF	Citations
1	MR damper and its application for semi-active control of vehicle suspension system. Mechatronics, 2002, 12, 963-973.	2.0	376
2	Testing and steady state modeling of a linear MR damper under sinusoidal loading. Smart Materials and Structures, 2000, 9, 95-102.	1.8	157
3	Mathematical Model of Drum-type MR Brakes using Herschel-Bulkley Shear Model. Journal of Intelligent Material Systems and Structures, 2008, 19, 565-572.	1.4	117
4	Vibration reliability characterization of PBGA assemblies. Microelectronics Reliability, 2000, 40, 1097-1107.	0.9	52
5	Shock analysis of a head actuator assembly subjected to half-sine acceleration pulses. International Journal of Impact Engineering, 2007, 34, 253-263.	2.4	37
6	Reliability of PBGA assemblies under out-of-plane vibration excitations. IEEE Transactions on Components and Packaging Technologies, 2002, 25, 293-300.	1.4	35
7	Electro-Rheological Multi-layer Squeeze Film Damper and Its Application to Vibration Control of Rotor System. Journal of Vibration and Acoustics, Transactions of the ASME, 2000, 122, 7-11.	1.0	34
8	ANALYTICAL RANDOM VIBRATION ANALYSIS OF BOUNDARY-EXCITED THIN RECTANGULAR PLATES. International Journal of Structural Stability and Dynamics, 2013, 13, 1250062.	1.5	26
9	INVESTIGATION OF DAMPING EFFECTS ON STATISTICAL ENERGY ANALYSIS OF COUPLED STRUCTURES. Journal of Sound and Vibration, 1996, 197, 351-371.	2.1	25
10	MR-fluid yield surface determination in disc-type MR rotary brakes. Smart Materials and Structures, 2008, 17, 035021.	1.8	24
11	External Corrosion Detection of Oil Pipelines Using Fiber Optics. Sensors, 2020, 20, 684.	2.1	23
12	Feedback control of rotating disk flutter in an enclosure. Journal of Fluids and Structures, 2004, 19, 917-932.	1.5	21
13	4D printed thermochromic Fresnel lenses for sensing applications. Composites Part B: Engineering, 2022, 230, 109514.	5.9	17
14	Modeling of hard disk drives for vibration analysis using a flexible multibody dynamics formulation. IEEE Transactions on Magnetics, 2005, 41, 744-749.	1.2	16
15	Random vibration protection of a double-chamber submerged jet impingement cooling system: A continuous model. Aerospace Science and Technology, 2014, 35, 29-38.	2.5	15
16	Design and Analysis of Shock and Random Vibration Isolation of Operating Hard Disk Drive in Harsh Environment. Shock and Vibration, 2009, 16, 143-154.	0.3	14
17	Design and analysis of shock and random vibration isolation system for a discrete model of submerged jet impingement cooling system. JVC/Journal of Vibration and Control, 2015, 21, 468-482.	1.5	13
18	Design and analysis of vibration isolation systems for hard disk drives. Journal of Magnetism and Magnetic Materials, 2006, 303, e52-e56.	1.0	12

#	Article	IF	Citations
19	Modeling of hard disk drives for shock and vibration analysis â€“ consideration of nonlinearities and discontinuities. Nonlinear Dynamics, 2007, 50, 717-731.	2.7	12
20	A Model for a Hard Disk Drive for Vibration and Shock Analysis. IEEE Transactions on Magnetics, 2008, 44, 4764-4768.	1.2	12
21	On Determination of the Material Constants of Laminated Cylindrical Shells Based on an Inverse Optimal Approach. Inverse Problems in Science and Engineering, 2002, 10, 309-322.	0.5	10
22	Shock and vibration protection of submerged jet impingement cooling systems: Theory and experiment. Applied Thermal Engineering, 2014, 73, 1076-1086.	3.0	10
23	The pulse width effect of single half-sine acceleration pulse on the peak response of an actuator arm of hard disk drive. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2006, 423, 199-203.	2.6	9
24	Reducing Fuel Consumption Using Flywheel Battery Technology for Rubber Tyred Gantry Cranes in Container Terminals. Journal of Power and Energy Engineering, 2017, 05, 15-33.	0.3	8
25	Vibro-acoustic interaction of components in hard disk drive under seek process. Microsystem Technologies, 2003, 9, 496-500.	1.2	7
26	Identification of Spring-Force Factors of Suspension Systems Using Progressive Neural Network on a Validated Computer Model. Inverse Problems in Science and Engineering, 2003, 11, 55-74.	0.5	7
27	A more efficient approach for investigation of effect of various HDD components on the shock tolerance. Microsystem Technologies, 2007, 13, 1331-1338.	1.2	7
28	Front steering design guidelines formulation for e-scooters considering the influence of sitting and standing riders on self-stability and safety performance. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 0, , 095440702199217.	1.1	7
29	Feature-Based Component Models for Virtual Prototyping of Hydraulic Systems. International Journal of Advanced Manufacturing Technology, 2001, 18, 665-672.	1.5	6
30	Shock response analysis of hard disk drive using flexible multibody dynamics formulation. Microsystem Technologies, 2007, 13, 1039-1045.	1.2	6
31	Feasibility of Modeling Air Bearing as Linear Springs in Hard Disk Drive Dynamics Simulation. IEEE Transactions on Magnetics, 2009, 45, 4941-4944.	1.2	6
32	Performance of spade-less wheeled military vehicles with passive and semi-active suspensions during mortar firing. Vehicle System Dynamics, 2012, 50, 1515-1537.	2.2	6
33	A knowledge-based web platform for collaborative physical system modeling and simulation. Computer Applications in Engineering Education, 2015, 23, 23-35.	2.2	6
34	Computational tools for fluid power system design: towards distributed AI and virtual reality. International Journal of Computer Applications in Technology, 2000, 13, 295.	0.3	5
35	Active Noise Control Using Piezoelectric Actuators in Hard Disk Drives. Mechanics Based Design of Structures and Machines, 2003, 31, 475-490.	3.4	5
36	Study on Idle Noise Characteristics of Hard Disk Drives Based on a Multibody Dynamic Formulation. Mechanics Based Design of Structures and Machines, 2005, 33, 215-241.	3.4	5

#	Article	IF	Citations
37	Dimple-flexure contact stiffness effect on operational hard disk drive shock tolerance. Microsystem Technologies, 2008, 14, 1157-1163.	1.2	5
38	Vibration Analysis of the Third Rail Structure of a Mass Rapid Transit System with Structural Defects. Applied Sciences (Switzerland), 2021, 11, 8410.	1.3	5
39	Compliant Mechanism-Based Sensor for Large Strain Measurements Employing Fiber Optics. Sensors, 2022, 22, 3987.	2.1	5
40	A Fuzzy Neural Network Approach to Model Hydraulic Component from Input/Output Data. International Journal of Fluid Power, 2001, 2, 37-47.	0.7	4
41	Shock analysis of non-operating hard disk drives based on a multibody dynamic formulation. Microsystem Technologies, 2006, 12, 247-257.	1.2	4
42	<title>Test and reliability analysis of PBGA assemblies under random vibration</title>. , 2000, , .		3
43	Airflow-Induced Noise and Prediction for High-Spinning-Speed Hard Disk Drive. Mechanics Based Design of Structures and Machines, 2009, 37, 413-429.	3.4	3
44	An Investigation Into the Use of Four-Bar Linkage Mechanism as Actuator for Hard-Disk Drive. IEEE Transactions on Magnetics, 2013, 49, 2466-2472.	1.2	3
45	Safety assessment of personal mobility devices with different wheel size based on their dynamic stability performance. International Journal of Sustainable Design, 2020, 3, 227.	0.1	3
46	A fuzzy neural network approach to model component behavior for virtual prototyping of hydraulic system. , 2001, , .		2
47	Numerical model of spindle/disks assemblyâ€“shaftâ€“housing system for vibro-acoustic analysis of HDD in idle mode. Mechanical Systems and Signal Processing, 2006, 20, 438-462.	4.4	2
48	Effect of Disk Clamping Conditions on the Operational Shock Response of Hard Disk Drives. IEEE Transactions on Magnetics, 2011, 47, 1874-1877.	1.2	2
49	Implementation of a real-time, data-driven online Epidemic Calculator for tracking the spread of COVID-19 in Singapore and other countries. Infectious Disease Modelling, 2021, 6, 1159-1172.	1.2	2
50	Vibro-acoustic analysis of hard disk drives. , 0, , .		1
51	A new passive vibration isolator design for random base excitations in zero and non-zero G-loading situations. , 2011, , .		1
52	Elimination of spades in wheeled military vehicles using MR-fluid dampers. Proceedings of SPIE, 2011, , .	0.8	1
53	Development of an improved design methodology and front steering design guideline for small-wheel bicycles for better stability and performance. Proceedings of the Institution of Mechanical Engineers, Part P: Journal of Sports Engineering and Technology, 2020, 234, 227-244.	0.4	1
54	Modeling of hard disk drives for vibration analysis using a flexible multi-body dynamics formulation. , 0, , .		0

#	Article	IF	Citations
55	Study on vibro-acoustic characteristics of disks-spindle system of hard disk drives. , 0, , .		0
56	Advanced Suspension Systems for Wheeled Military Vehicles. , 2005, , 593.		0
57	Toward Efficient Op-Shock Simulation. , 2006, , .		0
58	Safety assessment of personal mobility devices with different wheel size based on their dynamic stability performance. International Journal of Sustainable Design, 2020, 3, 227.	0.1	0
59	Polymer-based dampening layer application to improve the operating shock tolerance of hard disk drive. Journal of Engineering and Applied Science, 2022, 69, .	0.8	0