

A dynamic Lagrangian frequency-time method for the systems

Journal of Sound and Vibration

265, 201-219

DOI: [10.1016/s0022-460x\(02\)01447-5](https://doi.org/10.1016/s0022-460x(02)01447-5)

Citation Report

#	ARTICLE	IF	CITATIONS
1	Method for Direct Parametric Analysis of Nonlinear Forced Response of Bladed Discs With Friction Contact Interfaces. , 2004, , 397.		7
2	Method for Direct Parametric Analysis of Nonlinear Forced Response of Bladed Discs With Friction Contact Interfaces. Journal of Turbomachinery, 2004, 126, 654-662.	0.9	27
3	Modeling and Analysis of Mistuned Bladed Disk Vibration: Current Status and Emerging Directions. Journal of Propulsion and Power, 2006, 22, 384-396.	1.3	372
4	Numerical and Experimental Study of Friction Damping Blade Attachments of Rotating Bladed Disks. International Journal of Rotating Machinery, 2006, 2006, 1-13.	0.8	62
5	Direct Parametric Analysis of Resonance Regimes for Nonlinear Vibrations of Bladed Discs. , 2006, , 779.		4
6	Effects of Damping and Varying Contact Area at Blade-Disk Joints in Forced Response Analysis of Bladed Disk Assemblies. Journal of Turbomachinery, 2006, 128, 403-410.	0.9	119
7	Vibration Control for Integrally Bladed Disks Using Friction Ring Dampers. , 2007, , 255.		10
8	Direct Parametric Analysis of Resonance Regimes for Nonlinear Vibrations of Bladed Disks. Journal of Turbomachinery, 2007, 129, 495-502.	0.9	27
9	Non-Linear Vibrations of Multi-Stage Bladed Disks Systems With Friction Ring Dampers. , 2007, , .		8
10	Qualitative analysis of forced response of blisks with friction ring dampers. European Journal of Mechanics, A/Solids, 2007, 26, 676-687.	2.1	99
11	Vibration Response of Cracked Cantilevered Plates Near Natural Frequency Veerings. , 2008, , .		1
12	Dynamic Analysis of Fretting-Wear in Friction Contact Interfaces. , 2008, , .		4
13	Non-Linear Modal Analysis for Bladed Disks With Friction Contact Interfaces. , 2008, , .		22
14	Analysis of sensitivity and robustness of forced response for nonlinear dynamic structures. Mechanical Systems and Signal Processing, 2009, 23, 68-86.	4.4	32
15	Complex non-linear modal analysis for mechanical systems: Application to turbomachinery bladings with friction interfaces. Journal of Sound and Vibration, 2009, 322, 1009-1025.	2.1	124
16	A high order purely frequency-based harmonic balance formulation for continuation of periodic solutions. Journal of Sound and Vibration, 2009, 324, 243-262.	2.1	184
17	Estimation and veering analysis of nonlinear resonant frequencies of cracked plates. Journal of Sound and Vibration, 2009, 326, 725-739.	2.1	56
18	Force characteristics of dry friction when contact oscillates. Journal of Friction and Wear, 2009, 30, 17-24.	0.1	3

#	ARTICLE	IF	CITATIONS
19	Dynamic Analysis of a Bladed Disk With Friction and Fretting-Wear in Blade Attachments. , 2009, , .		16
20	Response Prediction of Frictionally Constraint Blade Systems Based on a Variable Normal Load Microslip Model. , 2010, , .		0
21	Structural modal interaction of a four degree-of-freedom bladed disk and casing model. Journal of Computational and Nonlinear Dynamics, 2010, 5, .	0.7	15
22	Dynamic Analysis of Fretting-Wear in Joint Interface by a Multiscale Harmonic Balance Method Coupled With Explicit or Implicit Integration Schemes. , 2010, , .		2
23	A Method for the Calculation of Friction Damping in Blade Root Joints. , 2010, , .		1
24	Analyse multi-Ã©chelle de lâ€™mesure par fretting sous chargement dynamique. Mecanique Et Industries, 2010, 11, 277-282.	0.2	2
25	A nonlinear numerical simulation of a lab centrifuge with internal damping. Nonlinear Dynamics, 2010, 60, 39-47.	2.7	3
26	Experimental and numerical study of a vibro-impact phenomenon in a gearshift cable. Journal of Sound and Vibration, 2010, 329, 289-301.	2.1	3
27	Global search of non-linear systems periodic solutions: A rotordynamics application. Mechanical Systems and Signal Processing, 2010, 24, 1799-1813.	4.4	10
28	Calibrated Non Linear Dissipative Model of Fan Bladed Disk. , 2010, , .		0
29	Dynamic Analysis of Fretting-Wear in Friction Contact Interfaces. Journal of Engineering for Gas Turbines and Power, 2010, 132, .	0.5	5
30	Forced Response Analysis of Integrally Bladed Disks With Friction Ring Dampers. Journal of Vibration and Acoustics, Transactions of the ASME, 2010, 132, .	1.0	74
31	Three Dimensional Friction Contact Model and Its Application in Nonlinear Vibration Analysis of Shrouded Blades. , 2010, , .		1
32	Reduced Order Modeling for Nonlinear Vibration Analysis of Mistuned Multi-Stage Bladed Disks with a Cracked Blade. , 2011, , .		2
33	Nonlinear dynamics of a bladed dual-shaft. European Journal of Computational Mechanics, 2011, 20, 207-225.	0.6	11
34	Dual Time Stepping Algorithms With the High Order Harmonic Balance Method for Contact Interfaces With Fretting-Wear. , 2011, , .		1
35	Ground response analysis using non-recursive matrix implementation of hybrid frequency-time domain (HFTD) approach. Scientia Iranica, 2011, 18, 1188-1197.	0.3	13
36	Dynamic analysis of fretting-wear in friction contact interfaces. International Journal of Solids and Structures, 2011, 48, 1513-1524.	1.3	36

#	ARTICLE	IF	CITATIONS
37	Computational and quasi-analytical models for non-linear vibrations of resonant MEMS and NEMS sensors. International Journal of Non-Linear Mechanics, 2011, 46, 532-542.	1.4	72
38	Harmonic Balance-Based Approach for Quasi-Periodic Motions and Stability Analysis. Journal of Vibration and Acoustics, Transactions of the ASME, 2012, 134, .	1.0	58
39	Multiharmonic Analysis and Design of Shroud Friction Joints of Bladed Disks Subject to Microslip. , 2012, , .		8
40	Robust Design of Friction Interfaces of Bladed Disks With Respect to Parameter Uncertainties. , 2012, , .		9
41	Dual Time Stepping Algorithms With the High Order Harmonic Balance Method for Contact Interfaces With Fretting-Wear. Journal of Engineering for Gas Turbines and Power, 2012, 134, .	0.5	18
42	Reduced-Order Modeling for Nonlinear Analysis of Cracked Mistuned Multistage Bladed-Disk Systems. AIAA Journal, 2012, 50, 304-312.	1.5	35
43	A Brief Review on Modeling Approaches of Friction Dampers Used in Turbomachinery. Advances in Intelligent and Soft Computing, 2012, , 317-329.	0.2	1
44	Numerical assessment of friction damping at turbine blade root joints by simultaneous calculation of the static and dynamic contact loads. Nonlinear Dynamics, 2012, 67, 1943-1955.	2.7	65
45	A method for nonlinear modal analysis and synthesis: Application to harmonically forced and self-excited mechanical systems. Journal of Sound and Vibration, 2013, 332, 6798-6814.	2.1	81
46	Reduced Order Modeling Based on Complex Nonlinear Modal Analysis and Its Application to Bladed Disks With Shroud Contact. Journal of Engineering for Gas Turbines and Power, 2013, 135, .	0.5	38
47	Investigation of Rotor-Casing Interactions in the Centrifugal Compressor of a Helicopter Engine. , 2013, , .		1
48	Analysis of Global Dynamics of Rotating Systems like Jet Engines, with Special Emphasis on Harmonic Analysis in the Presence of Bearing with Clearances. , 2013, , .		0
49	Global resonance optimization analysis of nonlinear mechanical systems: Application to the uncertainty quantification problems in rotor dynamics. Communications in Nonlinear Science and Numerical Simulation, 2014, 19, 3323-3345.	1.7	18
50	Nonlinear dynamics of mechanical systems with friction contacts: Coupled static and dynamic Multi-Harmonic Balance Method and multiple solutions. Journal of Sound and Vibration, 2014, 333, 916-926.	2.1	51
51	Reliability optimization of friction-damped systems using nonlinear modes. Journal of Sound and Vibration, 2014, 333, 2699-2712.	2.1	42
52	Adaptive Microslip Projection (AMP) for Reduction of Frictional and Contact Non-Linearities in Shrouded Blisks. , 2015, , .		0
53	Nonlinear Modal Analysis of Mistuned Periodic Structures Subjected to Dry Friction. , 2015, , .		4
54	The harmonic balance method for bifurcation analysis of large-scale nonlinear mechanical systems. Computer Methods in Applied Mechanics and Engineering, 2015, 296, 18-38.	3.4	206

#	ARTICLE	IF	CITATIONS
55	Adaptive Microslip Projection for Reduction of Frictional and Contact Nonlinearities in Shrouded Blisks. <i>Journal of Computational and Nonlinear Dynamics</i> , 2016, 11, .	0.7	39
56	On the Interaction of Multiple Traveling Wave Modes in the Flutter Vibrations of Friction-Damped Tuned Bladed Disks. , 2016, , .		5
57	Improved Hybrid Frequency-Time Domain Method for Nonlinear Analysis of Frictionally Damped Blade Systems. , 2016, , .		0
58	An efficient method for approximating resonance curves of weakly-damped nonlinear mechanical systems. <i>Computers and Structures</i> , 2016, 169, 81-90.	2.4	6
59	A Mixed Shooting “ Harmonic Balance Method for Unilaterally Constrained Mechanical Systems. <i>Archive of Mechanical Engineering</i> , 2016, 63, 297-314.	0.7	19
60	A Taylor Series Expansion Approach for Nonlinear Blade Forced Response Prediction Considering Variable Rotational Speed. , 2016, , .		3
61	Investigation of Damping Potential of Strip Damper on a Real Turbine Blade. , 2016, , .		4
62	Nonlinear Modal Analysis of Mistuned Periodic Structures Subjected to Dry Friction. <i>Journal of Engineering for Gas Turbines and Power</i> , 2016, 138, .	0.5	24
63	Experiments and numerical simulations of nonlinear vibration responses of an assembly with friction joints “ Application on a test structure named “Harmony”. <i>Mechanical Systems and Signal Processing</i> , 2016, 70-71, 1097-1116.	4.4	19
64	A nonlinear component mode synthesis method for the computation of steady-state vibrations in non-conservative systems. <i>Mechanical Systems and Signal Processing</i> , 2017, 83, 75-92.	4.4	54
65	Vibration analysis of an oscillator with non-smooth dry friction constraint. <i>JVC/Journal of Vibration and Control</i> , 2017, 23, 2328-2344.	1.5	6
66	A Taylor Series Expansion Approach for Nonlinear Blade Forced Response Prediction Considering Variable Rotational Speed. <i>Journal of Engineering for Gas Turbines and Power</i> , 2017, 139, .	0.5	5
67	On the Interaction of Multiple Traveling Wave Modes in the Flutter Vibrations of Friction-Damped Tuned Bladed Disks. <i>Journal of Engineering for Gas Turbines and Power</i> , 2017, 139, .	0.5	13
68	Nonlinear Effects of Surface Texturing on the Performance of Journal Bearings in Flexible Rotordynamic Systems. <i>Journal of Tribology</i> , 2017, 139, .	1.0	2
69	On the dual Craig “Bampton method for the forced response of structures with contact interfaces. <i>Nonlinear Dynamics</i> , 2017, 87, 2445-2455.	2.7	14
70	Bifurcation tracking by Harmonic Balance Method for performance tuning of nonlinear dynamical systems. <i>Mechanical Systems and Signal Processing</i> , 2017, 88, 445-461.	4.4	61
71	Vibration Prediction of Bladed Disks Coupled by Friction Joints. <i>Archives of Computational Methods in Engineering</i> , 2017, 24, 589-636.	6.0	154
72	Modal Amplitude Stability Analysis and its application to brake squeal. <i>Applied Acoustics</i> , 2017, 116, 127-138.	1.7	16

#	ARTICLE	IF	CITATIONS
73	Best practices for underplatform damper designers. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2018, 232, 1221-1235.	1.1	15
74	Effect of creep on the nonlinear vibration characteristics of blades with interlocked shrouds. International Journal of Non-Linear Mechanics, 2018, 99, 240-246.	1.4	8
75	Dynamic Analysis for Bolted Beam with Nonlinear Behaviors of Joint Interfaces. , 2018, , .		0
76	Modeling Friction for Turbomachinery Applications: Tuning Techniques and Adequacy Assessment of Heuristic Contact Models. , 2018, , .		2
77	Rig and Engine Validation of the Non-Linear Forced Response Analysis Performed by the Tool OrAgL. , 2018, , .		7
78	Rotational Speed-Dependent Contact Formulation for Nonlinear Blade Dynamics Prediction. , 2018, , .		0
79	Criteria for Best Performance of Pre-Optimized Solid Dampers. , 2018, , .		5
80	Reduced-order modelling using nonlinear modes and triple nonlinear modal synthesis. Computers and Structures, 2018, 203, 18-33.	2.4	26
81	Competitive Time Marching Solution Methods for Systems with Friction-Induced Nonlinearities. Applied Sciences (Switzerland), 2018, 8, 291.	1.3	13
82	Nonsmooth Modal Analysis: From the Discrete to the Continuous Settings. , 2018, , 191-234.		3
83	Evaluation of free interface-based reduction techniques for nonlinear forced response analysis of shrouded blades. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2019, 233, 7459-7475.	1.1	4
84	Dynamic Modeling and Projection-Based Reduction Methods for Bladed Disks With Nonlinear Frictional and Intermittent Contact Interfaces. Applied Mechanics Reviews, 2019, 71, .	4.5	22
85	Nonlinear Structural Dynamics and Damping. Mechanisms and Machine Science, 2019, , .	0.3	4
86	A multi-parametric recursive continuation method for nonlinear dynamical systems. Mechanical Systems and Signal Processing, 2019, 127, 276-289.	4.4	16
87	Theory of Harmonic Balance. Mathematical Engineering, 2019, , 11-46.	0.1	1
88	Application to Mechanical Systems. Mathematical Engineering, 2019, , 47-79.	0.1	1
89	Dry-Friction Damping in Vibrating Systems, Theory and Application to the Bladed Disc Assembly. Mechanisms and Machine Science, 2019, , 169-259.	0.3	4
90	The surrogate system hypothesis for joint mechanics. Mechanical Systems and Signal Processing, 2019, 126, 42-64.	4.4	22

#	ARTICLE	IF	CITATIONS
91	Numerical Assessment of Reduced Order Modeling Techniques for Dynamic Analysis of Jointed Structures With Contact Nonlinearities. Journal of Engineering for Gas Turbines and Power, 2019, 141, .	0.5	16
92	Rotational Speed-Dependent Contact Formulation for Nonlinear Blade Dynamics Prediction. Journal of Engineering for Gas Turbines and Power, 2019, 141, .	0.5	4
93	Criteria for Best Performance of Pre-Optimized Solid Dampers. Journal of Engineering for Gas Turbines and Power, 2019, 141, .	0.5	3
94	A method for numerical and experimental nonlinear modal analysis of nonsmooth systems. Mechanical Systems and Signal Processing, 2019, 120, 793-807.	4.4	13
95	Effects of modal energy scattering and friction on the resonance mitigation with an impact absorber. Journal of Sound and Vibration, 2019, 442, 71-89.	2.1	14
96	Rig and Engine Validation of the Nonlinear Forced Response Analysis Performed by the Tool OrAgL. Journal of Engineering for Gas Turbines and Power, 2019, 141, .	0.5	7
97	Frequency-adaptive bilinear reduced-order model for structures with intermittent contacts. Nonlinear Dynamics, 2020, 99, 461-477.	2.7	1
98	A review of friction damping modeling and testing. Archive of Applied Mechanics, 2020, 90, 107-126.	1.2	31
99	Influence of fretting wear on bladed disks dynamic analysis. Tribology International, 2020, 145, 106148.	3.0	22
100	Global detection of detached periodic solution branches of friction-damped mechanical systems. Nonlinear Dynamics, 2020, 99, 1841-1870.	2.7	15
101	Design of dry friction dampers for thin-walled structures by an accelerated dynamic Lagrange method. Journal of Sound and Vibration, 2020, 489, 115550.	2.1	7
102	High-efficiency nonlinear dynamic analysis for joint interfaces with Newton-Raphson iteration process. Nonlinear Dynamics, 2020, 100, 543-559.	2.7	12
103	Numerical analysis of stick-slip induced nonlinear vibration and acoustic responses of composite laminated plates with friction boundaries. Composite Structures, 2021, 258, 113316.	3.1	12
104	On a New Nonlinear Reduced-Order Model for Capturing Internal Resonances in Intentionally Mistuned Cyclic Structures. Journal of Engineering for Gas Turbines and Power, 2021, 143, .	0.5	1
105	Analysis of the Nonlinear Response of Piezo-Micromirrors with the Harmonic Balance Method. Actuators, 2021, 10, 21.	1.2	24
106	Nonlinear cyclic reduction for the analysis of mistuned cyclic systems. Journal of Sound and Vibration, 2021, 499, 116002.	2.1	8
107	The harmonic balance method with arc-length continuation in blade-tip/casing contact problems. Journal of Sound and Vibration, 2021, 502, 116070.	2.1	27
108	Development of a Harmonic Balance Method-Based Numerical Strategy for Blade-Tip/Casing Interactions: Application to NASA Rotor 37. , 2021, , .		0

#	ARTICLE	IF	CITATIONS
109	Modelling of a wave energy converter array with non-linear power take-off using a mixed time-domain/frequency-domain method. IET Renewable Power Generation, 2021, 15, 3220-3231.	1.7	4
110	Impact of Mistuned Underplatform Dampers on the Nonlinear Vibration of Bladed Disks. Journal of Engineering for Gas Turbines and Power, 2021, 143, .	0.5	3
111	Model reduction of nonlinear cyclic structures based on their cyclic symmetric properties. Mechanical Systems and Signal Processing, 2020, 145, 106970.	4.4	5
112	Capturing the Dynamics of Rotating Machines: A Modern Global Approach Based on SAMCEF Rotor. Mechanisms and Machine Science, 2015, , 1573-1580.	0.3	0
113	Nonlinear Forced Response of a Composite Fan Blade Actuated by Piezoelectric Patches: Simulation and Testing. Conference Proceedings of the Society for Experimental Mechanics, 2019, , 351-362.	0.3	2
114	Nonlinear dynamic analysis of three-dimensional bladed-disks with frictional contact interfaces based on cyclic reduction strategies. International Journal of Solids and Structures, 2022, 236-237, 111277.	1.3	5
115	A massless boundary component mode synthesis method for elastodynamic contact problems. Computers and Structures, 2022, 260, 106698.	2.4	6
116	On a New Nonlinear Reduced-Order Model for Capturing Internal Resonances in Intentionally Mistuned Cyclic Structures. , 2020, , .		0
117	On Harmonic Balance Method-based Lagrangian contact formulations for vibro-impact problems. Journal of Sound and Vibration, 2022, 531, 116950.	2.1	5
118	A Measurement-Aided Control System for Stabilization of the Real-Life Stewart Platform. Sensors, 2022, 22, 7271.	2.1	1
119	A combined FD-HB approximation method for steady-state vibrations in large dynamical systems with localised nonlinearities. Computational Mechanics, 2022, 70, 1241-1256.	2.2	1
120	A coupled approach to model wear effect on shrouded bladed disk dynamics. International Journal of Mechanical Sciences, 2023, 237, 107816.	3.6	5
121	Assessment of Two Harmonic Balance Method-Based Numerical Strategies for Blade-Tip/Casing Interactions: Application to NASA Rotor 67. Journal of Engineering for Gas Turbines and Power, 2022, 144, .	0.5	4
122	Numerical and experimental investigations on a friction ring damper for a flywheel. Nonlinear Dynamics, 0, , .	2.7	0
123	A versatile strategy to compute nonlinear normal modes of flexible beams. Nonlinear Dynamics, 2023, 111, 9815-9837.	2.7	1