## Analysis of friction and instability by the centre manifo sprag-slip model

Journal of Sound and Vibration 265, 527-559 DOI: 10.1016/s0022-460x(02)01453-0

**Citation Report** 

#	Article	IF	CITATIONS
1	Methods to reduce non-linear mechanical systems for instability computation. Archives of Computational Methods in Engineering, 2004, 11, 257-344.	6.0	29
2	The invariant manifold approach applied to nonlinear dynamics of a rotor-bearing system. European Journal of Mechanics, A/Solids, 2005, 24, 676-689.	2.1	18
4	Stability analysis and μ-synthesis control of brake systems. Journal of Sound and Vibration, 2006, 298, 1073-1087.	2.1	15
5	Stability analysis and non-linear behaviour of structural systems using the complex non-linear modal analysis (CNLMA). Computers and Structures, 2006, 84, 1891-1905.	2.4	18
6	The Role of Damping and Definition of the Robust Damping Factor for a Self-Exciting Mechanism With Constant Friction. Journal of Vibration and Acoustics, Transactions of the ASME, 2007, 129, 297-306.	1.0	28
7	Parameter analysis of brake squeal using finite element method. European Journal of Computational Mechanics, 2007, 16, 11-32.	0.6	1
8	Mode coupling instability in friction-induced vibrations and its dependency on system parameters including damping. European Journal of Mechanics, A/Solids, 2007, 26, 106-122.	2.1	163
9	Effects of damping on brake squeal coalescence patterns – application on a finite element model. Mechanics Research Communications, 2007, 34, 181-190.	1.0	60
10	Investigation of the relationship between damping and mode-coupling patterns in case of brake squeal. Journal of Sound and Vibration, 2007, 307, 591-609.	2.1	77
11	Study on the stability of drum brake non-linear low frequency vibration model. Archive of Applied Mechanics, 2007, 77, 473-483.	1.2	15
12	Study on the limit cycle oscillation of the drum brake non-linear vibration model at low frequency. International Journal of Mechanics and Materials in Design, 2008, 4, 317-324.	1.7	5
13	On the stabilizing and destabilizing effects of damping in a non-conservative pin-disc system. Acta Mechanica, 2008, 199, 43-52.	1.1	12
14	Analysis of squeal noise and mode coupling instabilities including damping and gyroscopic effects. European Journal of Mechanics, A/Solids, 2008, 27, 141-160.	2.1	69
15	Friction Induced Vibrations of Brakes: Research Fields and Activities. , 0, , .		38
16	Nonlinear stability analysis of a disk brake model. Nonlinear Dynamics, 2009, 58, 63-73.	2.7	44
17	Brake comfort – a review. Vehicle System Dynamics, 2009, 47, 901-947.	2.2	74
18	A Study on the Stability of the Low Frequency Vibration Non-Linear 2-DOF Model of Drum Brake. , 2009, , .		0
19	A combined approach of complex eigenvalue analysis and design of experiments (DOE) to study disc brake squeal. International Journal of Engineering, Science and Technology, 2010, 1, .	0.3	16

#	Article	IF	CITATIONS
20	Simulation of the structural modifications of a disc brake system to reduce brake squeal. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2011, 225, 653-672.	1.1	21
21	Analysis of friction excited vibration of drum brake squeal. International Journal of Mechanical Sciences, 2013, 67, 59-69.	3.6	18
22	Stability and transient dynamics of a propeller–shaft system as induced by nonlinear friction acting on bearing–shaft contact interface. Journal of Sound and Vibration, 2014, 333, 2608-2630.	2.1	50
23	Sensitivity analysis and Kriging based models for robust stability analysis of brake systems. Mechanics Research Communications, 2015, 69, 136-145.	1.0	51
24	Statistics of complex eigenvalues in friction-induced vibration. Journal of Sound and Vibration, 2015, 338, 169-183.	2.1	38
25	The Role of Nonlinearity and Uncertainty in Assessing Disc Brake Squeal Propensity. SAE International Journal of Passenger Cars - Mechanical Systems, 2016, 9, 980-986.	0.4	1
26	Nonlinear Friction-Induced Vibration of a Slider–Belt System. Journal of Vibration and Acoustics, Transactions of the ASME, 2016, 138, .	1.0	24
27	On the potential of uncertainty analysis for prediction of brake squeal propensity. Journal of Sound and Vibration, 2016, 377, 123-132.	2.1	38
28	Dither effect on drum brake squeal. JVC/Journal of Vibration and Control, 2017, 23, 1057-1072.	1.5	5
29	Vibration Instability in a Large Motion Bistable Compliant Mechanism Due to Stribeck Friction. Journal of Vibration and Acoustics, Transactions of the ASME, 2018, 140, .	1.0	18
30	Friction-induced vibration of a slider on an elastic disc spinning at variable speeds. Nonlinear Dynamics, 2019, 98, 39-60.	2.7	18
31	Friction-Induced Vibration in a Bi-Stable Compliant Mechanism. Vibration, 2019, 2, 285-299.	0.9	1
32	A new approach considering the brake pad geometry in brake squeal. Archive of Applied Mechanics, 2019, 89, 2075-2088.	1.2	2
33	A non-linear friction work formulation for the analysis of self-excited vibrations. Journal of Sound and Vibration, 2019, 443, 328-340.	2.1	14
34	Friction-Induced Vibration Due to Mode-Coupling and Intermittent Contact Loss. Journal of Vibration and Acoustics, Transactions of the ASME, 2019, 141, .	1.0	15
35	Tribological investigation of a greased contact subjected to contact dynamic instability. Tribology International, 2020, 143, 106085.	3.0	8
36	Impact analysis of contact symmetrical caliper structure on brake squeal. JVC/Journal of Vibration and Control, 2020, , 107754632095951.	1.5	5
37	Suppression of friction-induced-vibration in MDoF systems using tangential harmonic excitation. Meccanica, 2020, 55, 1525-1542.	1.2	9

CITATION REPORT

#	Article	IF	CITATIONS
38	Friction-induced vibrations in the framework of dynamic substructuring. Nonlinear Dynamics, 2021, 103, 3301-3314.	2.7	12
39	Experimental observation of thermally-driven frictional instabilities on C/C materials. Tribology International, 2021, 154, 106724.	3.0	6
40	Assessment of disc brake vibration in rail vehicle operation on the basis of brake stand. Eksploatacja I Niezawodnosc, 2021, 23, 221-230.	1.1	7
41	Uncertainty propagation in structural reliability with implicit limit state functions under aleatory and epistemic uncertainties. Eksploatacja I Niezawodnosc, 2021, 23, 231-241.	1.1	3
43	Stabilization Device for a Rigid Disc Excited by Friction. Journal of Vibration and Acoustics, Transactions of the ASME, 2021, 143, .	1.0	0
44	A Review of Model Order Reduction Methods for Large-Scale Structure Systems. Shock and Vibration, 2021, 2021, 1-19.	0.3	6
45	Nonlinear analysis of a two-DOF sliding system with a periodically modulated normal force. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2021, 43, 1.	0.8	0
46	Friction-induced vibration of a slider-on-rotating-disc system considering uniform and non-uniform friction characteristics with bi-stability. Mechanical Systems and Signal Processing, 2022, 164, 108222.	4.4	9
47	Brake System Dynamics. , 2013, , 837-917.		0
48	Frictional Instability of a Mass-on-Belt System with Intermittent Contact Detachment. , 0, , .		0
48 49	Frictional Instability of a Mass-on-Belt System with Intermittent Contact Detachment. , 0, , . Influence of imperfections on the stability of a multi-disc friction system. Journal of Sound and Vibration, 2022, 524, 116712.	2,1	0
	Influence of imperfections on the stability of a multi-disc friction system. Journal of Sound and	2.1	
49	Influence of imperfections on the stability of a multi-disc friction system. Journal of Sound and Vibration, 2022, 524, 116712. The influence of surface topography on friction squeal-A review. Proceedings of the Institution of		2
49 50	Influence of imperfections on the stability of a multi-disc friction system. Journal of Sound and Vibration, 2022, 524, 116712. The influence of surface topography on friction squeal-A review. Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology, 2022, 236, 2067-2086. Friction-induced planar vibration of two rigid plates. Applied Mathematical Modelling, 2022, 109,	1.0	2 8
49 50 51	Influence of imperfections on the stability of a multi-disc friction system. Journal of Sound and Vibration, 2022, 524, 116712. The influence of surface topography on friction squeal-A review. Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology, 2022, 236, 2067-2086. Friction-induced planar vibration of two rigid plates. Applied Mathematical Modelling, 2022, 109, 613-628. Simulation of a mass-on-belt dynamical model with the Zener viscoelastic support. Journal of Sound	1.0 2.2	2 8 3
49 50 51 52	Influence of imperfections on the stability of a multi-disc friction system. Journal of Sound and Vibration, 2022, 524, 116712.         The influence of surface topography on friction squeal-A review. Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology, 2022, 236, 2067-2086.         Friction-induced planar vibration of two rigid plates. Applied Mathematical Modelling, 2022, 109, 613-628.         Simulation of a mass-on-belt dynamical model with the Zener viscoelastic support. Journal of Sound and Vibration, 2022, 534, 117025.         Evaluation of Different Contact Assumptions in the Analysis of Friction-Induced Vibrations Using	1.0 2.2 2.1	2 8 3 2
<ul> <li>49</li> <li>50</li> <li>51</li> <li>52</li> <li>53</li> </ul>	Influence of imperfections on the stability of a multi-disc friction system. Journal of Sound and Vibration, 2022, 524, 116712.         The influence of surface topography on friction squeal-A review. Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology, 2022, 236, 2067-2086.         Friction-induced planar vibration of two rigid plates. Applied Mathematical Modelling, 2022, 109, 613-628.         Simulation of a mass-on-belt dynamical model with the Zener viscoelastic support. Journal of Sound and Vibration, 2022, 534, 117025.         Evaluation of Different Contact Assumptions in the Analysis of Friction-Induced Vibrations Using Dynamic Substructuring. Machines, 2022, 10, 384.         A study of the influence of heterogeneous friction coefficient and heterogeneous contact stiffness on the generation of squeal. Proceedings of the Institution of Mechanical Engineers, Part D: Journal	1.0 2.2 2.1 1.2	2 8 3 2 3

	C	CITATION REPORT	
#	Article	IF	Citations
57	Advances in Friction-Induced Vibration in Applied Engineering. Coatings, 2023, 13, 786.	1.2	0
61	Wheel Hub Cracks of Heavy-Duty Vehicles due to Drum Brake Shoe-Lining Wear, Friction, and Self-Lo , 0, , .	ck.	0