Å tÄ›pÃ¡n Dyk

List of Publications by Year
in descending order

17 papers	127 citations	1306789 7 h-index	1281420 11 g-index
19 all docs	19 docs citations	19 times ranked	62 citing authors

#	Article	IF	Citations
1	Nonlinear dynamics of flexible slender structures moving in a limited space with application in nuclear reactors. Nonlinear Dynamics, 2021, 104, 3561-3579.	2.7	11
2	Nonlinear dynamic analysis of a tilting pad journal bearing subjected to pad fluttering. Nonlinear Dynamics, 2021, 105, 2133-2156.	2.7	7
3	Two-stage modelling of hexagonal fuel assemblies vibration considering mechanical nonlinearities. Progress in Nuclear Energy, 2021, 138, 103825.	1.3	1
4	Towards efficient and vibration-reducing full-floating ring bearings in turbochargers. International Journal of Mechanical Sciences, 2020, 175, 105516.	3.6	14
5	Predictive capability of various linearization approaches for floating-ring bearings in nonlinear dynamics of turbochargers. Mechanism and Machine Theory, 2020, 149, 103843.	2.7	12
6	Application of Multibody Dynamics in the Modelling of a Limited-Slip Differential. Computational Methods in Applied Sciences (Springer), 2020, , 454-462.	0.1	0
7	Dynamic coefficients and stability analysis of finite-length journal bearings considering approximate analytical solutions of the Reynolds equation. Tribology International, 2019, 130, 229-244.	3.0	21
8	Threshold stability curves for a nonlinear rotor-bearing system. Journal of Sound and Vibration, 2019, 442, 698-713.	2.1	18
9	Steady-State Behaviour of the Rigid Jeffcott Rotor Comparing Various Analytical Approaches to the Solution of the Reynolds Equation for Plain Journal Bearing. Springer Proceedings in Mathematics and Statistics, 2018, , 95-103.	0.1	0
10	Effect of various analytical descriptions of hydrodynamic forces on dynamics of turbochargers supported by floating ring bearings. Tribology International, 2018, 126, 65-79.	3.0	18
11	Dynamic behaviour of rotors supported by fluid-film bearings operated close to fluid-induced instability. MATEC Web of Conferences, 2018, 148, 04003.	0.1	0
12	Evolution of grid-to-rod fretting of nuclear fuel rods during burnup. Progress in Nuclear Energy, 2018, 108, 160-168.	1.3	9
13	Rigid Jeffcott Rotor Bifurcation Behaviour Using Different Models of Hydrodynamic Bearings. Springer Proceedings in Mathematics and Statistics, 2018, , 75-85.	0.1	0
14	Impact vibrations of guide thimbles in nuclear fuel assembly. Archive of Applied Mechanics, 2017, 87, 231-244.	1.2	4
15	Bifurcations in Mathematical Model of Nonlinear Vibration of the Nuclear Fuel Rod. Applied Mechanics and Materials, 2016, 821, 207-212.	0.2	0
16	Nonlinear Dynamics of the Car Driving System with a Sequential Manual Transmission. Springer Proceedings in Mathematics and Statistics, 2016, , 49-58.	0.1	0
17	Mathematical modelling of nonlinear vibration and fretting wear of the nuclear fuel rods. Archive of Applied Mechanics, 2016, 86, 657-668.	1.2	12