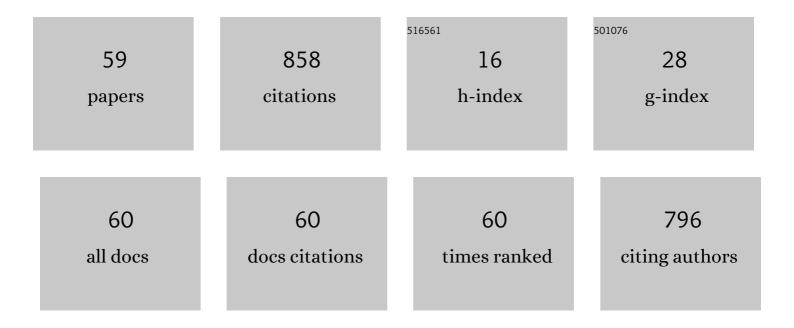
## Rob H B Fey

List of Publications by Year in descending order

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ROB H R FEV

| #  | Article  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | Modelling the dynamics of a MEMS resonator: Simulations and experiments. Sensors and Actuators A:<br>Physical, 2008, 142, 306-315.   | 2.0 | 159       |
| 2  | Long Term Structural Dynamics of Mechanical Systems With Local Nonlinearities. Journal of Vibration and Acoustics, Transactions of the ASME, 1996, 118, 147-153.             | 1.0 | 68        |
| 3  | Simulations and experiments of hardening and softening resonances in a clamped–clamped beam MEMS resonator. Sensors and Actuators A: Physical, 2010, 162, 225-234.           | 2.0 | 67        |
| 4  | Application of a Dynamic Vibration Absorber to a Piecewise Linear Beam System. Nonlinear Dynamics, 2004, 37, 227-243.  | 2.7 | 49        |
| 5  | Amplitude saturation of MEMS resonators explained by autoparametric resonance. Journal of Micromechanics and Microengineering, 2010, 20, 105012.                             | 1.5 | 42        |
| 6  | Dynamic buckling of a shallow arch under shock loading considering the effects of the arch shape.<br>International Journal of Non-Linear Mechanics, 2006, 41, 1057-1067.     | 1.4 | 35        |
| 7  | Phase Feedback for Nonlinear MEM Resonators in Oscillator Circuits. IEEE/ASME Transactions on Mechatronics, 2009, 14, 423-433.   | 3.7 | 31        |
| 8  | An improved model for the classical Huygens× <sup>3</sup> experiment on synchronization of pendulum clocks.<br>Journal of Sound and Vibration, 2014, 333, 7248-7266.         | 2.1 | 26        |
| 9  | Synchronization of weakly nonlinear oscillators with Huygens' coupling. Chaos, 2013, 23, 033118.   | 1.0 | 25        |
| 10 | Dynamic stability of a thin cylindrical shell with top mass subjected to harmonic base-acceleration.<br>International Journal of Solids and Structures, 2008, 45, 1587-1613. | 1.3 | 24        |
| 11 | Dynamic stability of a base-excited thin orthotropic cylindrical shell with top mass: Simulations and experiments. Journal of Sound and Vibration, 2010, 329, 3149-3170.     | 2.1 | 23        |
| 12 | Network synchronization using invariant-manifold-based diffusive dynamic couplings with time-delay.<br>Automatica, 2015, 57, 34-44.  | 3.0 | 23        |
| 13 | Steady-state behaviour of flexible rotordynamic systems with oil journal bearings. Nonlinear<br>Dynamics, 1996, 11, 295-313.   | 2.7 | 22        |
| 14 | Further understanding of Huygens' coupled clocks: The effect of stiffness. Physica D: Nonlinear<br>Phenomena, 2014, 270, 11-19.  | 1.3 | 21        |
| 15 | Semi-analytic approximation of the temperature field resulting from moving heat loads. International<br>Journal of Heat and Mass Transfer, 2018, 122, 128-137.               | 2.5 | 20        |
| 16 | Nonlinear dynamic analysis of a structure with a friction-based seismic base isolation system.<br>Nonlinear Dynamics, 2007, 50, 523-538.                                     | 2.7 | 18        |
| 17 | Proportional and derivative control for steady-state vibration mitigation in a piecewise linear beam system. Nonlinear Dynamics, 2010, 60, 535-549.                          | 2.7 | 14        |
| 18 | Synchronization of Identical Linear Systems and Diffusive Time-Delayed Couplings. IEEE Transactions on Circuits and Systems I: Regular Papers, 2014, 61, 1801-1814.          | 3.5 | 14        |

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|----|--|-----|-----------|
| 19 | Nonlinear resonances in an axially excited beam carrying aÂtop mass: simulations and experiments.<br>Nonlinear Dynamics, 2011, 66, 285-302.  | 2.7 | 11        |
| 20 | Steady-state dynamics of a 3D tensegrity structure: Simulations and experiments. International Journal of Solids and Structures, 2012, 49, 973-988.  | 1.3 | 11        |
| 21 | Periodic excitation of a buckled beam using a higher order semianalytic approach. Nonlinear Dynamics, 2007, 50, 325-339.   | 2.7 | 10        |
| 22 | Finite Element Model Reduction and Model Updating of structures for Control. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 4517-4522.   | 0.4 | 10        |
| 23 | Network synchronization of time-delayed coupled nonlinear systems using predictor-based diffusive dynamic couplings. Chaos, 2015, 25, 023108.  | 1.0 | 10        |
| 24 | Synchronization and Partial Synchronization Experiments with Networks of Time-Delay Coupled<br>Hindmarsh–Rose Neurons. International Journal of Bifurcation and Chaos in Applied Sciences and<br>Engineering, 2016, 26, 1650111. | 0.7 | 10        |
| 25 | Experimental verification of the steady-state behavior of a beam system with discontinuous support.<br>Experimental Mechanics, 1996, 36, 159-165.  | 1.1 | 9         |
| 26 | A numerical and experimental study on viscoelastic damping of a 3D structure. Journal of Sound and Vibration, 2015, 349, 80-98.  | 2.1 | 9         |
| 27 | Immersion and invariance observers with time-delayed output measurements. Communications in Nonlinear Science and Numerical Simulation, 2016, 30, 227-235.   | 1.7 | 9         |
| 28 | Experimental Validation of Object Positioning Via Stick–Slip Vibrations. IEEE/ASME Transactions on<br>Mechatronics, 2014, 19, 1092-1101.   | 3.7 | 8         |
| 29 | Experimental validation of hardening and softening resonances in a clamped-clamped beam MEMS resonator. Procedia Chemistry, 2009, 1, 812-815.  | 0.7 | 6         |
| 30 | Large amplitude dynamic behavior of thrust air bearings: Modeling and experiments. Tribology<br>International, 2017, 109, 460-466.   | 3.0 | 6         |
| 31 | A fluid-coupled transmitting CMUT operated in collapse mode: Semi-analytic modeling and experiments. Sensors and Actuators A: Physical, 2017, 267, 474-484.  | 2.0 | 6         |
| 32 | NETWORK SYNCHRONIZATION BY DYNAMIC DIFFUSIVE COUPLING. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2013, 23, 1350076.  | 0.7 | 5         |
| 33 | Iterative Pole–Zero model updating: A combined sensitivity approach. Control Engineering Practice, 2018, 71, 164-174.  | 3.2 | 5         |
| 34 | Sensor and Actuator Placement for Proportional Feedback Control in Advection-Diffusion Equations.<br>, 2020, 4, 193-198.   |     | 5         |
| 35 | On phase feedback for nonlinear MEMS resonators. Frequency Control Symposium and Exhibition, Proceedings of the IEEE International, 2007, , .  | 0.0 | 4         |
| 36 | Editorial: Special issue on stability of non-linear dynamic structures and systems. Nonlinear Dynamics, 2011, 66, 247-250.   | 2.7 | 4         |

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| #  | Article   | IF  | CITATIONS |
|----|---|-----|-----------|
| 37 | An Introduction to Parametric Resonance. , 2012, , 1-13.  |     | 4         |
| 38 | Impulsive Steering Between Coexisting Stable Periodic Solutions With an Application to Vibrating Plates. Journal of Computational and Nonlinear Dynamics, 2017, 12, . | 0.7 | 4         |
| 39 | Manifolds of Nonlinear Dynamic Single-DOF Systems. , 1993, , 293-303.   |     | 4         |
| 40 | Severity of Tip-Out Induced Impacts in Drive Line Systems With Backlash. Journal of Computational and Nonlinear Dynamics, 2010, 5, .                                  | 0.7 | 3         |
| 41 | Vibrational self-alignment of a rigid object exploiting friction. Nonlinear Dynamics, 2011, 65, 109-129.  | 2.7 | 3         |
| 42 | lterative pole-zero finite element model updating using generic parameters. Mechatronics, 2018, 55, 180-193.  | 2.0 | 3         |
| 43 | Optimal Thermal Actuation for Mitigation of Heat-Induced Wafer Deformation. IEEE Transactions on<br>Control Systems Technology, 2021, 29, 514-529.                    | 3.2 | 3         |
| 44 | Experimental analysis of the steady-state behaviour of beam systems with discontinuous support.<br>Meccanica, 1996, 31, 293-308.                                      | 1.2 | 2         |
| 45 | Airflow-Housing-Induced Resonances of Rotating Optical Disks. Journal of Applied Mechanics,<br>Transactions ASME, 2007, 74, 1252-1263.                                | 1.1 | 2         |
| 46 | Bifurcation-Based Shimmy Analysis of Landing Gears Using Flexible Multibody Models. Mechanisms and<br>Machine Science, 2019, , 261-291.                               | 0.3 | 2         |
| 47 | Classification of Periodic Solutions in a Single-Degree-of-Freedom System With Backlash. , 2007, , .  |     | 2         |
| 48 | Steady-State Behaviour of a Solar Array System with Elastic Stops. Solid Mechanics and Its Applications, 1999, , 303-312.   | 0.1 | 2         |
| 49 | Classification of periodic orbits for systems with backlash. Chaos, Solitons and Fractals, 2009, 41, 131-144.   | 2.5 | 1         |
| 50 | CONTROLLED SYNCHRONIZATION OF CHAOTIC OSCILLATORS WITH HUYGENS' COUPLING. , 2013, , 341-35  | 52. | 1         |
| 51 | The method of images in thermoelasticity with an application to wafer heating. Journal of Thermal Stresses, 2021, 44, 970-1010.                                       | 1.1 | 1         |
| 52 | Some Aspects of the Analysis of Systems with Local Nonlinearities. , 1990, , 165-172.   |     | 1         |
| 53 | Optimal thermal actuation for mirror temperature control. Computer Methods in Applied Mechanics and Engineering, 2022, 398, 115212.                                   | 3.4 | 1         |
| 54 | Effect of hinge friction on the steady-state response of base-excited shallow arches. JVC/Journal of<br>Vibration and Control, 2014, 20, 1877-1894.                   | 1.5 | 0         |

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| #  | Article  | IF  | CITATIONS |
|----|--|-----|-----------|
| 55 | Steady-State Dynamics of Two Nonlinear MDOF Mechanical Engineering Systems. Solid Mechanics and Its Applications, 2000, , 13-23.   | 0.1 | 0         |
| 56 | Impact Severity in Drive Line Systems With Backlash. , 2009, , .   |     | 0         |
| 57 | Reduction of Steady-State Vibrations in a Piecewise Linear Beam System Using Proportional and Derivative Control. World Scientific Series on Nonlinear Science, Series B, 2010, , 71-88. | 0.2 | Ο         |
| 58 | Parametric and Direct Resonances in a Base-Excited Beam Carrying a Top Mass. , 2012, , 267-285.  |     | 0         |
| 59 | Iterative Pole-Zero Model Updating Using Multiple Frequency Response Functions. Conference<br>Proceedings of the Society for Experimental Mechanics, 2017, , 65-70.                      | 0.3 | Ο         |