Colin H Hansen

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Flow resistance information for acoustical design. Applied Acoustics, 1980, 13, 357-391.	1.7	201
2	The effect of transfer function estimation errors on the filtered-x LMS algorithm. IEEE Transactions on Signal Processing, 1994, 42, 950-953.	3.2	153
3	Active control of noise transmission through a panel into a cavity: I. Analytical study. Journal of the Acoustical Society of America, 1990, 87, 2098-2108.	0.5	134
4	An extensive review of vibration modelling of rolling element bearings with localised and extended defects. Journal of Sound and Vibration, 2015, 357, 300-330.	2.1	108
5	Active control of sound radiation from a vibrating rectangular panel by sound sources and vibration inputs: An experimental comparison. Journal of Sound and Vibration, 1991, 145, 195-215.	2.1	102
6	NON-LINEAR OSCILLATIONS OF A ROTOR IN ACTIVE MAGNETIC BEARINGS. Journal of Sound and Vibration, 2001, 240, 599-612.	2.1	91
7	Engineering Noise Control. , 0, , .		81
8	A Kalman filter approach to virtual sensing for active noise control. Mechanical Systems and Signal Processing, 2008, 22, 490-508.	4.4	80
9	Detection of broken rotor bars in induction motor using starting-current analysis and effects of loading. IET Electric Power Applications, 2006, 153, 848.	1.4	72
10	Active control of interior noise in model aircraft fuselages using piezoceramic actuators. AIAA Journal, 1992, 30, 2613-2617.	1.5	71
11	The response of a Duffing–van der Pol oscillator under delayed feedback control. Journal of Sound and Vibration, 2006, 291, 644-655.	2.1	70
12	Suppression of maglev vehicle–girder self-excited vibration using a virtual tuned mass damper. Journal of Sound and Vibration, 2011, 330, 883-901.	2.1	66
13	Experiments on active control of sound radiation from a panel using a piezoceramic actuator. Journal of Sound and Vibration, 1991, 150, 179-190.	2.1	62
14	Active control of noise transmission through a panel into a cavity. II: Experimental study. Journal of the Acoustical Society of America, 1991, 90, 1488-1492.	0.5	62
15	Active control of farâ€field sound radiated by a rectangular panel—A general analysis. Journal of the Acoustical Society of America, 1992, 91, 2056-2066.	0.5	57
16	The influence of transducer transfer functions and acoustic time delays on the implementation of the LMS algorithm in active noise control systems. Journal of Sound and Vibration, 1990, 141, 409-424.	2.1	56
17	Active control of sound transmission using structural error sensing. Journal of the Acoustical Society of America, 1998, 104, 2878-2889.	0.5	54
18	Total power flow from a vibrating rigid body to a thin panel through multiple elastic mounts. Journal of the Acoustical Society of America, 1992, 92, 895-907.	0.5	53

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19	Stability and dynamics of a controlled van der Pol–Duffing oscillator. Chaos, Solitons and Fractals, 2006, 28, 555-570.	2.5	51
20	The Design of Systems to Control Actively Periodic Sound Transmission Into Enclosed Spaces, Part I: Analytical Models. Journal of Sound and Vibration, 1994, 170, 433-449.	2.1	49
21	Mechanisms of active noise control by vibration sources. Journal of Sound and Vibration, 1991, 147, 519-525.	2.1	46
22	Nonlinear Dynamics of Magnetic Bearing Systems. Journal of Intelligent Material Systems and Structures, 2008, 19, 1471-1491.	1.4	46
23	Active noise control in a free field with virtual sensors. Journal of the Acoustical Society of America, 2001, 109, 232-243.	0.5	43
24	The Design of Systems to Control Actively Periodic Sound Transmission Into Enclosed Spaces, Part II: Mechanisms and Trends. Journal of Sound and Vibration, 1994, 170, 451-472.	2.1	41
25	A study of time-domain FXLMS algorithms with control output constraint. Journal of the Acoustical Society of America, 2001, 109, 2815-2823.	0.5	41
26	Active noise control in ducts: Some physical insights. Journal of the Acoustical Society of America, 1989, 86, 184-194.	0.5	40
27	A Study of the Response of a Simply Supported Beam to Excitation by a Piezoelectric Actuator. Journal of Intelligent Material Systems and Structures, 1992, 3, 3-16.	1.4	39
28	Characterisation of wind farm infrasound and low-frequency noise. Journal of Sound and Vibration, 2016, 370, 176-190.	2.1	39
29	Wave propagation through cylinder/plate junctions. Journal of Sound and Vibration, 1995, 186, 447-461.	2.1	36
30	Analytical validation of an explicit finite element model of a rolling element bearing with a localised line spall. Journal of Sound and Vibration, 2018, 416, 94-110.	2.1	36
31	Active control of total vibratory power flow in a beam. I: Physical system analysis. Journal of the Acoustical Society of America, 1991, 89, 200-209.	0.5	35
32	Active control of vibratory power transmission along a semi-infinite plate. Journal of Sound and Vibration, 1995, 184, 585-610.	2.1	35
33	Recent Advances in Wind Turbine Noise Research. Acoustics, 2020, 2, 171-206.	0.8	35
34	Review of Coupled Vibration Problems in EMS Maglev Vehicles. International Journal of Acoustics and Vibrations, 2010, 15, .	0.3	35
35	A waveform synthesis algorithm for active control of transformer noise: implementation. Applied Acoustics, 2002, 63, 467-479.	1.7	33
36	Suppression of the stationary maglev vehicle–bridge coupled resonance using a tuned mass damper. JVC/Journal of Vibration and Control, 2013, 19, 191-203.	1.5	33

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37	NON-LINEAR RESPONSE OF A POST-BUCKLED BEAM SUBJECTED TO A HARMONIC AXIAL EXCITATION. Journal of Sound and Vibration, 2000, 237, 303-318.	2.1	32
38	Active control of noise transmission through a panel into a cavity. III: Effect of the actuator location. Journal of the Acoustical Society of America, 1991, 90, 1493-1501.	0.5	29
39	Use of genetic algorithms to optimize vibration actuator placement for active control of harmonic interior noise in a cylinder with floor structure. Noise Control Engineering Journal, 1996, 44, 169.	0.2	29
40	CALCULATING RESONANCE FREQUENCIES OF PERFORATED PANELS. Journal of Sound and Vibration, 1996, 196, 387-399.	2.1	29
41	AN ALGORITHM FOR ACTIVE CONTROL OF TRANSFORMER NOISE WITH ON-LINE CANCELLATION PATH MODELLING BASED ON THE PERTURBATION METHOD. Journal of Sound and Vibration, 2001, 240, 647-665.	2.1	29
42	Power transmission from a vibrating body to a circular cylindrical shell through passive and active isolators. Journal of the Acoustical Society of America, 1997, 101, 1479-1491.	0.5	28
43	A Review of the Potential Impacts of Wind Farm Noise on Sleep. Acoustics Australia, 2018, 46, 87-97.	1.4	28
44	Design considerations for active noise control systems implementing the multiple input, multiple output lms algorithm. Journal of Sound and Vibration, 1992, 159, 157-174.	2.1	27
45	The Effect of Error Sensor Location and Type on the Active Control of Beam Vibration. Journal of Sound and Vibration, 1993, 165, 497-510.	2.1	26
46	Vibro-acoustic noise control treatments for payload bays of launch vehicles: Discrete to fuzzy solutions. Applied Acoustics, 2005, 66, 1235-1261.	1.7	26
47	Dynamics of two delay coupled van der Pol oscillators. Mechanics Research Communications, 2006, 33, 614-627.	1.0	26
48	Using multiple regression to optimize active noise control system design. Journal of Sound and Vibration, 1991, 148, 537-542.	2.1	25
49	Sound attenuation in rectangular and circular cross-section ducts with flow and bulk-reacting liner. Journal of Sound and Vibration, 1991, 146, 47-80.	2.1	25
50	Control of flexural vibration in stiffened structures using multiple piezoceramic actuators. Applied Acoustics, 1996, 49, 17-48.	1.7	25
51	Active Structural-Acoustic Control of a Rocket Fairing Using Proof-Mass Actuators. Journal of Spacecraft and Rockets, 2001, 38, 219-225.	1.3	25
52	Active control analysis of mining vehicle cabin noise using finite element modelling. Journal of Sound and Vibration, 2004, 277, 277-297.	2.1	25
53	A moving zone of quiet for narrowband noise in a one-dimensional duct using virtual sensing. Journal of the Acoustical Society of America, 2007, 121, 1459-1470.	0.5	25
54	Outdoor to indoor reduction of wind farm noise for rural residences. Building and Environment, 2015, 94, 764-772.	3.0	25

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55	Application of least mean square algorithm to suppression of maglev track-induced self-excited vibration, 2011, 330, 5791-5811.	2.1	24
56	CALCULATION OF VIBRATORY POWER TRANSMISSION FOR USE IN ACTIVE VIBRATION CONTROL. Journal of Sound and Vibration, 2000, 233, 569-581.	2.1	23
57	Hopf Bifurcation of a Magnetic Bearing System with Time Delay. Journal of Vibration and Acoustics, Transactions of the ASME, 2005, 127, 362-369.	1.0	23
58	Exhaust stack silencer design using finite element analysis. Noise Control Engineering Journal, 2000, 48, 113.	0.2	22
59	Engineering Noise Control, Fourth Edition. Noise Control Engineering Journal, 2010, 58, 465.	0.2	22
60	Effect Of End Conditions On The Active Control Of Beam Vibration. Journal of Sound and Vibration, 1993, 168, 429-448.	2.1	21
61	Structural radiation mode sensing for active control of sound radiation into enclosed spaces. Journal of the Acoustical Society of America, 1999, 106, 3732-3735.	0.5	21
62	Feedback control of structurally radiated sound into enclosed spaces using structural sensing. Journal of the Acoustical Society of America, 1999, 106, 2621-2628.	0.5	21
63	ERRORS ARISING FROM THREE-DIMENSIONAL ENERGY DENSITY SENSING IN ONE-DIMENSIONAL SOUND FIELDS. Journal of Sound and Vibration, 2000, 236, 375-400.	2.1	21
64	Optical holography for the study of sound radiation from vibrating surfaces. Journal of the Acoustical Society of America, 1976, 60, 543-555.	0.5	20
65	An experimental study of the active control of multipleâ€wave types in an elastic beam. Journal of the Acoustical Society of America, 1992, 92, 871-876.	0.5	20
66	A COMPARISON OF NEAR-FIELD ACOUSTIC ERROR SENSING STRATEGIES FOR THE ACTIVE CONTROL OF HARMONIC FREE FIELD SOUND RADIATION. Journal of Sound and Vibration, 1998, 215, 81-103.	2.1	20
67	Near-field sensing strategies for the active control of the sound radiated from a plate. Journal of the Acoustical Society of America, 1999, 106, 3394-3406.	0.5	20
68	Prevalence of wind farm amplitude modulation at long-range residential locations. Journal of Sound and Vibration, 2019, 455, 136-149.	2.1	20
69	Active control of higherâ€order acoustic modes in ducts. Journal of the Acoustical Society of America, 1992, 92, 244-257.	0.5	19
70	Active control of power flow from a vibrating rigid body to a flexible panel through two active isolators. Journal of the Acoustical Society of America, 1993, 93, 1947-1953.	0.5	19
71	THE TRANSMISSION OF VIBRATION THROUGH A COUPLED PERIODIC STRUCTURE. Journal of Sound and Vibration, 1998, 215, 63-79.	2.1	19
72	On the approximate solution of a piecewise nonlinear oscillator under super-harmonic resonance. Journal of Sound and Vibration, 2005, 283, 467-474.	2.1	19

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73	A comparison of error sensor strategies for the active control of duct noise. Journal of the Acoustical Society of America, 1993, 94, 841-848.	0.5	18
74	Virtual error sensing for active noise control in a one-dimensional waveguide: Performance prediction versus measurement (L). Journal of the Acoustical Society of America, 2003, 113, 35-38.	0.5	18
75	Active isolation of a vibration source from a thin beam using a single active mount. Journal of the Acoustical Society of America, 1993, 94, 1425-1434.	0.5	17
76	Identification of low frequency wind turbine noise using secondary windscreens of various geometries. Noise Control Engineering Journal, 2014, 62, 69-82.	0.2	17
77	Further Studies of the Dynamic Response of a Simply Supported Beam Excited by a Pair of Out-of-Phase Piezoelectric Actuators. Journal of Intelligent Material Systems and Structures, 1994, 5, 654-664.	1.4	16
78	Current and future industrial applications of active noise control. Noise Control Engineering Journal, 2005, 53, 181.	0.2	16
79	Experimental and numerical investigation of blade–tower interaction noise. Journal of Sound and Vibration, 2019, 443, 362-375.	2.1	15
80	Vibration analysis of waffle floors. Computers and Structures, 2003, 81, 15-26.	2.4	14
81	Effect of External Excitations on a Nonlinear System with Time Delay. Nonlinear Dynamics, 2005, 41, 385-402.	2.7	14
82	Non-linear normal modes and their bifurcation of a two DOF system with quadratic and cubic non-linearity. International Journal of Non-Linear Mechanics, 2006, 41, 1028-1038.	1.4	14
83	Detection of Broken Rotor Bar Faults and Effects of Loading in Induction Motors during Rundown. , 2007, , .		14
84	Comparison of models for predicting the transmission loss of plenum chambers. Applied Acoustics, 2005, 66, 810-828.	1.7	13
85	Long-term quantification and characterisation of wind farm noise amplitude modulation. Measurement: Journal of the International Measurement Confederation, 2021, 182, 109678.	2.5	13
86	Near field determination of the complex radiation efficiency and acoustic intensity distribution for a resonality vibrating surface. Journal of Sound and Vibration, 1979, 62, 93-110.	2.1	12
87	Sound Transmission Loss of Corrugated and Fluted Panels. Noise Control Engineering Journal, 1993, 40, 187.	0.2	12
88	Prediction of Acoustic Loads on a Launch Vehicle Fairing During Liftoff. Journal of Spacecraft and Rockets, 2013, 50, 159-168.	1.3	12
89	An alternative mathematical description of the relationship between noise exposure and hearing loss. Journal of the Acoustical Society of America, 1990, 88, 2743-2754.	0.5	11
90	ACTIVE CONTROL OF VIBRATION TRANSMISSION IN A CYLINDRICAL SHELL. Journal of Sound and Vibration, 1997, 203, 409-434.	2.1	11

6

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91	Applying effort constraints on adaptive feedforward control using the active set method. Journal of Sound and Vibration, 2003, 260, 757-762.	2.1	11
92	Approximate solutions and chaotic motions of a piecewise nonlinear–linear oscillator. Chaos, Solitons and Fractals, 2004, 20, 1121-1133.	2.5	11
93	Forced phase-locked response of a nonlinear system with time delay after Hopf bifurcation. Chaos, Solitons and Fractals, 2005, 25, 461-473.	2.5	11
94	Acoustic cluster control of noise radiated from a planar structure. Journal of the Acoustical Society of America, 2005, 117, 3686-3694.	0.5	11
95	High frequency spatial vibration control using method. Mechanical Systems and Signal Processing, 2007, 21, 1541-1560.	4.4	11
96	High frequency spatial vibration control for complex structures. Applied Acoustics, 2008, 69, 933-944.	1.7	11
97	ERRORS IN THE MEASUREMENT OF ACOUSTIC ENERGY DENSITY IN ONE-DIMENSIONAL SOUND FIELDS. Journal of Sound and Vibration, 2000, 236, 801-831.	2.1	10
98	Analytical approximation of the primary resonance response of a periodically excited piecewise non-linear–linear oscillator. Journal of Sound and Vibration, 2004, 278, 327-342.	2.1	10
99	Vorticity characteristics of the vibrational intensity field in an actively controlled thin plate. Journal of the Acoustical Society of America, 1996, 99, 942-953.	0.5	9
100	SECONDARY ACOUSTIC SOURCE TYPES FOR ACTIVE NOISE CONTROL IN FREE FIELD: MONOPOLES OR MULTIPOLES?. Journal of Sound and Vibration, 2000, 232, 1005-1009.	2.1	9
101	A Modified Filtered-X LMS Algorithm for Active Control of Periodic Noise with On-Line Cancellation Path Modelling. Journal of Low Frequency Noise Vibration and Active Control, 2000, 19, 35-46.	1.3	9
102	Estimation of Static Eccentricity Severity in Induction Motors for On-Line Condition Monitoring. Conference Record - IAS Annual Meeting (IEEE Industry Applications Society), 2006, , .	0.0	9
103	Investigation of Static Eccentricity Fault Frequencies using Multiple Sensors in Induction Motors and Effects of Loading. Industrial Electronics Society (IECON), Annual Conference of IEEE, 2006, , .	0.0	9
104	EGO shape optimization of horn-loaded loudspeakers. Optimization and Engineering, 2008, 9, 361-374.	1.3	9
105	Use of a perforated panel for the active control of sound radiated from vibrating structures, I: Low-frequency analysis. Journal of Sound and Vibration, 1992, 156, 349-359.	2.1	8
106	<title>Use of genetic algorithms for optimizing vibration actuator placement for minimizing sound transmission into enclosed spaces</title> . , 1996, , .		8
107	AN INVESTIGATION OF THE COUPLING LOSS FACTOR FOR A CYLINDER/PLATE STRUCTURE. Journal of Sound and Vibration, 1997, 199, 629-643.	2.1	8
108	Control of Flexural Vibration in a Beam Using a Piezoceramic Actuator and an Angle Stiffener. Journal of Intelligent Material Systems and Structures, 1994, 5, 536-549.	1.4	7

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109	Estimation of the number of rotor slots and rotor speed in induction motors using current, flux or vibration signature analysis. Australian Journal of Electrical and Electronics Engineering, 2008, 4, 259-268.	0.7	7
110	Prediction of Acoustic Loads on a Launch Vehicle: Nonunique Source Allocation Method. Journal of Spacecraft and Rockets, 2015, 52, 1478-1485.	1.3	7
111	Infrasound and Low-Frequency Noise from Wind Turbines. Lecture Notes in Mechanical Engineering, 2016, , 3-16.	0.3	7
112	Experimental determination of the total vibratory power transmission in an elastic beam. Journal of the Acoustical Society of America, 1998, 104, 898-906.	0.5	6
113	Minimizing wind effects on active control systems for attenuating outdoor transformer noise. Noise Control Engineering Journal, 2000, 48, 130.	0.2	6
114	LOCAL BIFURCATION CONTROL IN A ROTOR-MAGNETIC BEARING SYSTEM. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2003, 13, 951-956.	0.7	6
115	Active vibration isolation experiments using translational and rotational power transmission as a cost function. Journal of the Acoustical Society of America, 2006, 120, 2004-2016.	0.5	6
116	Piezoelectric Crystal vs Point Force Excitation of Beams and Plates. Journal of Intelligent Material Systems and Structures, 1994, 5, 363-370.	1.4	5
117	Optimal virtual sensing for active noise control in a rigid-walled acoustic duct. Journal of the Acoustical Society of America, 2005, 118, 3086-3093.	0.5	5
118	A RANS-based Statistical Noise Model for Trailing Edge Noise. , 2012, , .		5
119	Impedanceâ€ŧube calibration of a reverberant room for the measurement of sound power in tones. Journal of the Acoustical Society of America, 1976, 59, 1393-1398.	0.5	4
120	Two-Dimensional and Three-Dimensional Acoustic Loading on Cylinders Due to a Point source. AIAA Journal, 2011, 49, 2421-2429.	1.5	4
121	Measurements of the radiation impedance presented to a source in a reverberant room containing a rotating diffuser. Journal of the Acoustical Society of America, 1979, 65, 708-718.	0.5	3
122	Active vibration control of waves in simple structures with multiple error sensors. Journal of the Acoustical Society of America, 1998, 103, 1673-1676.	0.5	3
123	A tool for the optimisation of vibro-acosutic systems using a parallel genetic algorithm and a distributed computing network. Noise Control Engineering Journal, 2005, 53, 256.	0.2	3
124	Implementation of active noise control in a multi-modal spray dryer exhaust stack. Applied Acoustics, 2006, 67, 28-48.	1.7	3
125	Optimal truncated model for vibration control design within a specified bandwidth. International Journal of Solids and Structures, 2007, 44, 4673-4689.	1.3	3
126	Development of a Transducer for Active Vibration Isolation Using Translational and Rotational Power Transmission as a Cost Function. Journal of Intelligent Material Systems and Structures, 2008, 19, 1229-1241.	1.4	3

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127	Investigation of a microphone height correction for long-range wind farm noise measurements. Applied Acoustics, 2019, 155, 97-110.	1.7	3
128	Sound Absorption in Enclosures. , 0, , 1115-1128.		3
129	Finite Element Analysis of Active Vibration Isolation Using Vibrational Power as a Cost Function. International Journal of Acoustics and Vibrations, 1999, 4, .	0.3	3
130	Active Nonlinear Vibration Absorber Design for Flexible Structures. International Journal of Acoustics and Vibrations, 2007, 12, .	0.3	3
131	Near field measurement of the complex radiation impedance presented to a vibrating plate in a reverberant room containing a rotating diffuser. Journal of Sound and Vibration, 1980, 73, 79-101.	2.1	2
132	Response of a cylindrical machine casing to oscillatory bearing forces. Journal of Sound and Vibration, 1982, 80, 179-192.	2.1	2
133	Convergence Characteristics of the Multiple Input, Multiple Output LMS Algorithm. Journal of Intelligent Material Systems and Structures, 1992, 3, 115-133.	1.4	2
134	Feasibility of feedback control of transmitted sound into a launch vehicle fairing using structural sensing and proof mass actuators. , 1999, , .		2
135	Vibration Transducer Principles and Types of Vibration Transducers. , 0, , 444-454.		2
136	Suppression of Maglev Track-Induced Self-Excited Vibration Using an Adaptive Cancellation Algorithm. Applied Mechanics and Materials, 2010, 44-47, 586-590.	0.2	2
137	Wind Farm Noise Uncertainty: Prediction, Measurement and Compliance Assessment. Acoustics Australia, 2018, 46, 59-67.	1.4	2
138	Benchmark characterisation and automated detection of wind farm noise amplitude modulation. Applied Acoustics, 2021, 183, 108286.	1.7	2
139	Active Control of Enclosed Sound Fields Using Three-axis Energy Density Sensors: Rigid Walled Enclosures. International Journal of Acoustics and Vibrations, 2003, 8, .	0.3	2
140	Nonlinear control of a parametrically excited system subject to actuator saturation. , 0, , .		1
141	Sound Absorption in Rooms. , 0, , 1247-1256.		1
142	Effectiveness of a passive-active vibration isolation system with actuator constraints. Chinese Journal of Mechanical Engineering (English Edition), 2014, 27, 567-574.	1.9	1
143	Active Control of Sound Radiation by Structures Using Near-field Sensing Strategies. International Journal of Acoustics and Vibrations, 2002, 7, .	0.3	1
144	Active Control of Sound Radiation from a Small Transformer Using Near-field Sensing. International Journal of Acoustics and Vibrations, 2002, 7, .	0.3	1

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145	Room Acoustics. , 0, , 1240-1246.		1
146	Beyond traditional wind farm noise characterisation using transfer learning. JASA Express Letters, 2022, 2, 052801.	0.5	1
147	The Application of Grey Relation Close Degree Model in the Fault Diagnosis. Lecture Notes in Computer Science, 2006, , 614-619.	1.0	1
148	Practical Implementation Issues and Future Directions for Active Noise Control. Building Acoustics, 1997, 4, 153-179.	1.1	0
149	Actuator Design and Deployment. , 2008, , 1141-1165.		0
150	Numerical Evaluation of a Decentralised Feedforward Active Control System for Electrical Transformer Noise. International Journal of Acoustics and Vibrations, 2002, 7, .	0.3	0
151	To sleep or not to sleep International Journal of Acoustics and Vibrations, 2017, 22, .	0.3	0