# GRADUATE STUDENT THESES AND DISSERTATIONS

| NAME | YEAR | DEGREE | PROFESSOR(S) | TITLE |
|---|---|---|---|---|
| Abe, Toshiro | 1977 | MSME | Hamilton, J.F. | Non-thesis. Research Study of Highly-Damped Sandwich Beams |
| Abram, Kwin R. HL 94-11 | 1994 | MSME | Bernhard, R.J. | Indirect Measurement of Internal Engine Forces |
| Accorsi, Felipe HL 2016-2 | 2016 | MSME | Groll, E. | Experimental Characterization of Scroll Expander for Small-Scale Power Generation in an Organic Rankine Cycle |
| Ackers, Spencer HL 2007-4 | 2007 | MSME | Adams, D.E. | A Method for Crack Detection In a Wheel End Spindle Using Broadband Modal Excitation |
| Adair, Randy P. HL 72-20 | 1972 | MSME | Pearson, J.T./ Qvale, B. | Instantaneous Heat Flow Through the Cylinder Walls of Reciprocating Compressors |
| Adams, Glynn P. HL 93-23 | 1993 | Ph.D. | Soedel, W. | Modelling and Computer Simulation of Rotor Chatter and Oscillating Bearing Forces in Twin Screw Compressors |
| Adams, John A. HL 71-15 | 1971 | Ph.D. | Hamilton, J.F./ Soedel, W. | The Prediction of Dynamic Strain in Ring Type Compressor Valves |
| Adi, Gayatri HL 2012-1 | 2012 | Ph.D. | Shaver, G. | Closed Loop Control for Biodiesel Blends in Mixing-Controlled Combustion |
| Aguilera, Giovanny | 2016 | MSME | Boor, B. | Characterization of Particle Emissions from Desktop 3D Printers: A Look at the Effect of Part Design and Build Pathing |
| Ahlbeck., D.R. HL 59-2 | 1959 | MSME | Wellman, E.J. | An Investigation of Acoustical Systems by Electrical Analog Methods |
| Ajagu, Chris O. HL 76-22 | 1976 | MSME | Goldschmidt, V.W. | Fold-Over, Intermittency and Crossing Frequency of a Plane Jet Interface With and Without an Acoustic Disturbance |
| Akash, Kumar | 2018 | MSME | Jain, N. | A Closed-Loop Framework for Increasing Trust in Human-Machine Interactions |
| Albert, David S. | 1999 | MSME | Franchek, M./ Bernhard, R,/ Krousgrill, C. | Non-thesis. Active Control of Transmission Loss in Lightly Damped Panels |
| Albright., Michael F. HL 88-33 | 1988 | MSME | Bolton, J.S. | Identification & Measurement of Forces Which Produce Noise in the Internal Combustion Engine |
| Aldrin, John C. HL 96-2 | 1996 | MSME | Soedel, W. | Investigation of Vibration Control Systems Applied to Automatic Washer Suspension Design |
| Alexander, Aaron | 2001 | MSME | Mongeau, L. | Non-thesis. Micro-Channel Heat Exchangers for Thermoacoustic Coolers |
| Ali, Gazi N. | 2007 | Ph.D. | Allebach, J./Chiu, G. | Image Quality Analysis of Electrophotographic Printers for Banding Measurement and Forensic Application |

| NAME | YEAR | DEGREE | PROFESSOR(S) | TITLE |
|------|------|--------|--------------|-------|
| Alissi, Michael S. HL 87-34 | 1987 | MSME | Schoenhals, R.J. | The Effect of Ambient Temperature, Ambient Humidity, and Door Openings on Household Refrigerator Energy Consumption |
| Allaei, Daryoush HL 86-32 | 1986 | Ph.D. | Soedel, W. | Vibration Analysis of Shells of Revolution Deviating from Axisymmetry with Application to Tires |
| Allen, James J. HL 81-26 | 1981 | Ph.D. | Hamilton, J.F. | Use of Harmonic Basis Functions in Acoustic Finite Elements |
| Alves, Goldino S. | 1998 | Ph.D. | Krousgrill, C./ Shoureshi, R. | A Feedback Control of Non-Minimum Phase Systems with Applications to Piezo-Driven Active Noise Control |
| Anand, N.K. HL 83-26 | 1983 | Ph.D. | Tree, D.R. | Numerical Simulation of Single Tube Heat Exchangers |
| Anders, Jonathan W. HL 2003-9 | 2003 | MSME | Franchek, M./ Meckl, P. | An Instrumental Variable Approach to Nonlinear Model-based Adaptive Control of Engine Speed |
| Anderson, Aaron HL 2017-6 | 2017 | MSME | Arrieta, A. | Design of a Twisting Multi-Stable Actuator |
| Anderson, Michael | 2001 | MSME | Davies, P. | Non-thesis. Sound Quality Inside Earth Moving Equipment Cabs |
| Andrews, Robert W. HL 90-18 | 1990 | MSME | Jones, J.D. | Noise Source Identification in Twin-Screw Compressors |
| Andruska, Adam | 2007 | MSME | Peterson, K. | The Design, Analysis, and Control of a Two Dimensional Hyper-Redundant Robot Interacting with an Elastic Environment |
| Angre, Harshil HL 2018-3 | 2018 | MSME | Meckl, P. | Control of UREA Dosing for UREA SCR System in a Diesel-Powered Vehicle |
| Ansari, J.S. HL 62-12 | 1962 | MSME | Chaddock, J.B. | Heat Exchanger Optimization Study for a Heat Pump Water Heater |
| Antman, Jeffrey D. HL 74-25 | 1974 | MSME | Leonard, R.G./ Goldschmidt, V.W. | Mathematical Simulation of Feedback Excited Oscillations in Gas Combustion Systems |
| Applegate, Steven L. HL 75-6 | 1975 | MSME | Crocker, M.J. | Noise Reduction of a Lawn Tractor Mower Assembly |
| Azimi, Saeed | 1983 | Ph.D. | Hamilton, J.F. | Connection of Continuous Elements by the Receptance Method |
| Azizi, Yousof HL 2015-8 (pdf only) | 2015 | Ph.D. | Bajaj, A. and Davies, P. | Development of a Multi-Body Nonlinear Model for a Seat-Occupant Systems |
| Bach, Christian HL 2014-1 | 2014 | Ph.D. | Groll, E./Braun, | Refrigerant Side Compensation for Air-Side Maldistribution of Evaporators and Its Effects on System Performance |
| Badagnani, Vincent | 2005 | MSME | Mongeau, | Method for Predicting the Acoustic Spectra of Axial Flow |

| NAME | YEAR | DEGREE | PROFESSOR(S) | TITLE |
|------|------|--------|--------------|-------|
| HL 2005-10 | | | L./Bolton, J.S. | Fans |
| Bae, Yeon Jin<br>HL 2016-3 | 2016 | Ph.D. | Horton, W.T. | Integrated Design Tool of Building System Optimization for Building Life Cycle Cost |
| Baek, Joo Seok<br>HL 2002-10 | 2002 | Ph.D. | Groll, E.A./<br>Lawless, P.B. | Development of a Carbon Dioxide Based Field Deployable Environmental Control Units to Replace HCFC-22 or HFC-134a Units |
| Bahman, Ammar | 2018 | Ph.D. | Groll, E. | Analysis of Packaged Air Conditioning System for High Temperature Climates |
| Bahr, Ronald A.<br>HL 70-47 | 1970 | MSME | Soedel, W. | Residual Stresses in a Pressure-Displacement Converter Diaphragm Due to Boundary Contraction and Localized Plastic Deformation |
| Bajaj, Nikhil | 2017 | Ph.D. | Rhoads, J. | Microresonator-Based Sensors with Feedback-Enabled Nonlinearities |
| Balasubramanian, Shambhavi<br>HL 2016-1 | 2016 | MSME | Meckl, P. | Fuel Type Estimation Using Fuel System Parameters |
| Ball, Jeffrey K. | 1992 | MSE | Jones, J.D. | Non-thesis.  Research Study on Active Control of the Divergence of Aircraft Wing Models |
| Banduric, Robert D.<br>HL 86-25 | 1986 | MSME | Tree, D.R. | A Reliability Study of Cooling Systems Serving Computer Rooms |
| Banerjee, Bappaditya<br>HL97-5 | 1997 | Ph.D. | Bajaj, A.K./<br>Davies, P. | Dynamics of Multi Degree-of-Freedom Stationary and Nonstationary Nonlinear Systems |
| Bansal, Kunal | 2015 | MSME | Groll, E. and<br>Braun, J. | Modeling and Evaluation of Scroll Expanders for a Liquid-Flooded Ericsson Power Cycle |
| Barbee, Angela | 1998 | MSME | Krousgrill, C. | Non-thesis.  Analysis of Automotive Mirror Shake |
| Batta, George R.<br>HL 90-32 | 1990 | Ph.D. | Shoureshi, R. | Real-Time Adaptive Active Control of Sound Fields |
| Baugh, Thomas J.<br>HL 80-37 | 1980 | MSME | Soedel, W. | Noise Reduction of a Two-Cycle Engine by Exhaust Shaping |
| Baum, Joseph M.<br>HL 75-22 | 1975 | MSME | Soedel, W. | Computer Simulation of a Four-Cylinder Air-Conditioning Compressor with Special Attention to Discharge Cavity Interactions |
| Beaty, Mike A.<br>HL 87-36 | 1987 | MSME | Krousgrill, C.M. | Energy Losses to Friction in a Reciprocating Refrigerator Compressor |
| Beauvilain, Thierry A.<br>HL 93-17 | 1993 | MSME | Bolton, J.S. | Multipole Sources for the Active Control of Radiated Sound Fields |
| Becker, Richard L.<br>HL 96-4 | 1996 | MSME | Starkey, J.M. | The Effects of Free-Play on Torsional Drive-line Dynamics |
| Beckermann, Christoph | 1984 | MSME | Goldschmidt, | Analysis of Submerged Combustion Chamber Gas-Fired |

| NAME | YEAR | DEGREE | PROFESSOR(S) | TITLE |
|------|------|--------|--------------|-------|
| HL 84-9 | | | V.W. | Water Heaters |
| Bednar, John M.<br>HL 75-20 | 1975 | MSME | Hawks, K.H. | Analysis and Computer Simulation of the Passenger Heating and Air Conditioning Requirements for an Electric Car |
| Bein., Thomas W.<br>HL 80-33 | 1980 | MSME | Hamilton, J.F. | A Computer Model of a Single Screw Air Compressor |
| Bekker, John E.<br>HL 90-12 | 1990 | MSE | Meckl, P.H. | Humidity Control System |
| Beldam, R. Paul<br>HL 72-16 | 1972 | MSME | Hamilton, J.F. | Experimental Verification of Digital Computer Rotary Compressor Simulation |
| Bell, Ian<br>HL 2011-4 | 2011 | Ph.D. | Braun, J. and Groll, E. | Theoretical and Experimental Analysis of Liquid Flooded Compression in Scroll Compressors |
| Belt, B. Whitney<br>HL 2012-7 | 2012 | MSME | Shaver, G. | High Voltage Energy Stoarage System Design for a Parallel-Through-The-Road Plug-In Hybrid Electric Vehicle |
| Belth, Michael I. | 1984 | MSME | Tree, D.R. | Design of a Split System Heat Pump for Testing of the Performance of Each Component |
| Bendapudi, Satyam<br>HL 2004-12 | 2004 | Ph.D. | Braun, J.E. | Development and Evaluation of Modeling Approaches for Transients in Centrifugal Chillers |
| Berdy, David | 2013 | Ph.D. | Rhoads, J. | Kinetic Energy Harvesting from Low Frequency Sources |
| Bergmann, Uwe<br>HL 78-20 | 1978 | MSME | Sullivan, J.W. | Investigation of a Sound Power Measurement Concept for Heavy Trucks |
| Berkman, Richard L. | 1970 | MSME | Qvale, B. | Non-thesis. Research Study on Reed Valves and the Engine Cycle Mathematical Model |
| Berther, Thomas<br>HL 90-6 | 1990 | MSME | Davies, P. | Condition Monitoring of Check Valves in Reciprocating Pumps |
| Bertsch, Stefan<br>HL 2005-13P | 2005 | MSME | Groll, E.A. | Theoretical and Experimental Investigation of a Two Stage Heat Pump Cycle for Nordic Climates |
| Bertsch, Stefan | 2008 | Ph.D. | Groll, E.A. | Refrigerant Flow Boiling in Microchannel Evaporators |
| Bezemek, Jacklyn D.<br>HL 97-9 | 1997 | MSE | Mongeau, L. | Aeroacoustic Source Characterization Method with Applications to Flow-Excited Cavity Pressure Fluctuations and Computer Cooling Fan Noise |
| Bhalerao, Pranav | 2012 | MSME | Meckl, P. | Analysis and Compensation of Fuel Quantity Variation in Multipulse Fuel Injection |
| Bhangale, Suyash | 2017 | MSME | Groll, E. | Non-thesis: Performance Testing of Unitary Split-System Heat Pump |
| Bhansali, Anil P. | 1988 | MSME | Hittle, D.C. | Energy Use Estimates of Ice Storage and Cold Air Distribution Systems in Large Commercial Buildings |

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|------|------|--------|--------------|-------|
| Bhat, Chaitanya<br>HL 2010-3 | 2010 | MSME | Meckl, P. | Influence of Electronic Injection Parameters on Combustion-Induced Noise in a Small Diesel Engine |
| Bhattiprolu, Udbhau<br>HL 2015-3 (pdf only) | 2015 | Ph.D. | Davies, P. and Bajaj, A. | Modelling and Measurement of the Response of a Beam Interacting with a Polyurethane Foam Foundation |
| Bi, Youyi<br>HL 2017-2 | 2017 | Ph.D. | Davies, P. | An Interdisciplinary Approach for Understanding Information Utilization in Engineering and Product Design |
| Bilal, Nasir | 2011 | Ph.D. | Adams, D.E. | Design Optimization of the Suction Manifold of a Reciprocating Compressor Using Uncertainty and Sensitivity Analysis |
| Bitsie, Fernando<br>HL 96-9 | 1996 | Ph.D. | Bernhard, R.J. | The Structural-Acoustic Energy Finite Element Method and Energy Boundary Element Method |
| Bittle, Becky B.<br>HL 83-44 | 1983 | MSME | Goldschmidt, V.W. | Heat Pump Seasonal Performance: Study of the Test Method and Some Test Data |
| Blake, Lesli<br>HL2000-1P | 2000 | MSE | Franchek, M./ Goldschmidt, V. | Micron-Sized Particle Adhesion on Surfaces and Effects of Oil Presence on Adhesion |
| Blanc, Arthur<br>HL 2007-2 | 2007 | Ph.D. | Bernhard, R.J. | Validation of Vibro-Acoustic Numerical Models |
| Blatchley, Tim | 2017 | MSME | Braun, J. | Secondary Loop Residental Heat Pump Design, Performance, and Cost Analysis Utilizing R290 |
| Blinka, John<br>HL 84-31 | 1984 | Ph.D. | Soedel, W. | A Numerical Method for the Analysis of Stress Wave Propagation in Elastic Solids |
| Block, Brian | 1999 | MSME | Franchek, M. | Non-thesis. Magneto-Rheological Fluid Damper Modeling |
| Bolleter, Ulrich<br>HL 70-36 | 1970 | Ph.D. | Chanaud, R.C./ Crocker, M.J. | Theory and Measurement of Modal Spectra in Hard-Walled Cylindrical Ducts |
| Boonstra, Richard H.<br>HL 74-14 | 1974 | MSE | Goldschmidt, V.W./ Leonard, R.G. | Mathematical Model, Simulation and Economic Analysis of the Steady-State Heat Gain of a Mobile Home |
| Boot, Jay L.<br>HL 77-48 | 1977 | Ph.D. | Pearson, J.T. | Dynamic Response Model for Cross-Flow Heat Exchangers |
| Borchers, Torsten<br>HL 87-30 | 1987 | MSME | Bernhard, R.J. | Investigation of Noise Mechanisms in Dishwasher Appliances |
| Bouchillon, M. Scott<br>HL 89-10 | 1989 | MSME | Shoureshi, R. | Optimal Tuning for Adaptive Hydraulic Engine Mounts |
| Bouthier, Oliver M.<br>HL 92-18 | 1992 | Ph.D. | Bernhard, R.J. | Energetics of Vibrating Systems |
| Boyd, Brian S. | 1990 | MSE | Bolton, J.S. | A Special Analysis Approach to Obtaining Transient |

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|------|------|--------|--------------|-------|
| | | | | Response of Plates |
| Bradshaw, Craig | 2012 | Ph.D. | Groll, E. | A Miniature-Scale Linear Compressor for Electronics Cooling |
| Brackney, Larry J. | 1994 | Ph.D. | Shoureshi, R. | Automated Reasoning Techniques for Intelligent Control of Building Systems |
| Brenn, Nicholas | 2017 | MSME | Groll, E. | Non-thesis: Data Mining at the ReNEWW House |
| Breuker, Mark HL97-29 | 1997 | MSME | Braun, J.E. | Evaluation of a Statistical, Rule-Based Fault Detection and Diagnostics Method For Vapor Compression Air Conditioners |
| Brown, Daniel V. HL 95-9 | 1995 | MSME | Mongeau, L. | The Design, Construction, and Validation of a Small, Low-Speed, Quiet Wind Tunnel with Application to Noise from the Flow Over a Cavity |
| Brown, Delores E. HL 90-15 | 1990 | MSME | Sherman, P. | Noise Source Identification of a Multi-Cylinder Reciprocating Automotive Air Conditioning Compressor |
| Brown, Jeremiah L. | 2002 | MSME | Franchek, M.A. | Information Synthesis with Application to Electromechanical Systems |
| Bruer, Christina V. HL 87-46 | 1987 | MSME | Bolton, J.S. | Measurements and Predictions of the Effect of Damping Layers on the Dynamic Response of Beams |
| Brush, Ethan | 2009 | MSME | Adams, D.E. | Development of a Dynamic Model for Subsurface Damage in Sandwich Composites |
| Bu, Fanping HL 2001-9 | 2001 | Ph.D. | Yao, B. | Nonlinear Model Based Coordinated Adaptive Robust Control of Electro-Hydraulic Systems |
| Bubel, Greg M. HL 85-19 | 1985 | MSME | Starkey, J.M. | Optimum Vibration Isolation for Resonance Pass Through and Steady-State Conditions |
| Bublitz, Mark C. HL 88-18 | 1988 | MSME | Tree, D.R. | Modeling and Experimental Verification of Vapor Condensing Commercial Cooking Equipment |
| Budde, Carson | 2010 | MSME | Adams, D.E. | Impact Force Identification for Composite Helicopter Blades Using Minimal Sensing |
| Buehler, Patarick J. | 2002 | MSME | Franchek, M.A. | Fault Detection, Isolation and Identification Via Information Synthesis |
| Buehlmann, Eugen T. HL 75-13 | 1975 | MSME | Crocker, M.J. | Combustion Noise Study on a Diesel Engine |
| Buehlmann, Eugen T. HL 77-41 | 1977 | Ph.D. | Crocker, M.J. | The Measurement of the Mach Number and the Speed of Sound in an Engine Exhaust System by an Acoustical Method |
| Buffa, II, Joseph HL 83-3 | 1983 | MSME | Crocker, M.J. | Determination of Sound Power of Machines Using Intensity Methods |
| Buhr, Craig A. | 2003 | Ph.D. | Fleeter, S./Franchek, M.A. | Active Control of Rotating Stall in Compressors |

| NAME | YEAR | DEGREE | PROFESSOR(S) | TITLE |
|------|------|--------|--------------|-------|
| Buhr, Craig A. | 1996 | MSME | Franchek, M. | Noncollocated Adaptive-Passive Vibration Control Using Self-Tuning Vibration Absorbers |
| Bunce, Michael HL 2009-5 | 2009 | MSME | Shaver, G. | Optimization of Soy-Biodiesel Combustion in a Modern Diesel Engine |
| Bunker, Byron J. HL 94-13 | 1994 | MSME | Franchek, M. | Multivariable Control of an Engine-Dynamometer System |
| Buntley, Daryl F. | 1971 | MSME | Crocker, M.J. | Non-thesis.  Research Study of Noise Produced in a 100 HP Centrifugal Fan |
| Burns, Larry A. HL 68-48 | 1968 | MS | Hamilton, J.F. | Modeling and Simulation of a Twin Spool Aircraft Lift Engine |
| Burns, Larry A. HL 71-35 | 1971 | Ph.D. | Hamilton, J.F. | Development of the Modal Beam Strip Method for the Analytical Determination of the Vibrational Characteristics of Cantilevered Plate-Like Systems Including Turbo-Machinery Blading |
| Butner, Charles M. | 2011 | MSME | Adams, D.E. | Investigation of the Effects of Bolt Preload on the Dynamic Response of a Bolted Interface |
| Cadman, Richard V. HL 63-24 | 1963 | MSME | Cohen, R. | Measurement Techniques for Determining Reed Valve Oscillations |
| Cadman, Richard V. HL 67-33 | 1967 | Ph.D. | Cohen, R. | A Technique for the Design of Electrodynamic Oscillating Compressors |
| Cai, Jie | 2015 | Ph.D. | Braun, J. | A Low Cost Multi-Agent Control Approach for Building Energy System Management |
| Cao, Jiajun HL 2015-2 (pdf only) | 2015 | MSME | Meckl, P. | Analysis and Simulation of Nonlinearities in Noise Attenuation Model for a Diesel Engine |
| Cao,  Rui HL 2014-9 | 2014 | MSME | Bolton, J.S. | Investigation of a Fully Coupled Spinning Tire-Wheel Model |
| Cao, Rui | 2017 | Ph.D. | Bolton, J.S. | Investigation of Noise and Vibration in Tires Through Analytical Modeling, Tests, and Simulations |
| Camejo, Pedro J. HL 89-37 | 1989 | MSME | Hittle, D.C. | An Expert System for the Design of Heating, Ventilating and Air Conditioning Systems |
| Carey, David M. HL 86-6 | 1986 | MSME | Shoureshi, R. | Dynamic Modeling and Optimal Control Design of Passive and Active Electro-Magnetic-Acoustic Transducers |
| Caris, John C. HL 90-16 | 1990 | MSME | Starkey, J.M. | An Improved Method for Optimal Design of Vehicle Body Mounts |
| Carley, Harold J. HL 56-3 | 1956 | MSME | Fontaine, W.E./ Witzell, O.W. | A Study of Wire and Tube Heat Exchangers |
| Carr, Daniel Hl 2015-11 | 2015 | MSME | Davies, P. | Two Laboratory Studies of People's Responses to Sonic Booms and Other Transient Sounds as Heard Indoors |

| NAME | YEAR | DEGREE | PROFESSOR(S) | TITLE |
|------|------|--------|--------------|-------|
| Case, Michael M.<br>HL 93-14 | 1993 | MSME | Kokini, K. | Mechanisms of Interface Crack Initiation in Multilayer Ceramic Thermal Barrier Coatings Under Thermal Loads |
| Caskey, Stephen | 2013 | MSME | Groll, E. | Cold Climate Field Test Analysis of an Air-Source Heat Pump with Two-Stage Compression and Economizing |
| Cassady, R.W.<br>HL 59-6 | 1959 | MSME | Fontaine, W.E. | The Techniques of Obtaining Internal Temperatures and a Temperature Profile of a Hermetic Compressor |
| Causey, Andrew<br>HL 98-12 | 1998 | MSME | Braun, J./ Groll, E. | Non-thesis.  Compressor Load Stand:  Commissioning and Control Strategies |
| Cervantes de Gortari, Jaime<br>HL 78-40 | 1978 | Ph.D. | Goldschmidt, V.W. | An Experimental Study of the Flapping Motion of a Turbulent Plane Jet |
| Chambers, Frank W.<br>HL 77-31 | 1977 | Ph.D. | Goldschmidt, V.W. | Acoustic Interaction with a Turbulent Plane Jet |
| Chan, Ying-Chieh | 2016 | Ph.D. | Tzempelikos, T. | Integrated Analysis of Building Perimeter Zones with Muli-Functional Façade Systems |
| Chanaud, Robert C.<br>HL 67-34 | 1967 | Ph.D. | Cohen, R. | Experimental Study of Aerodynamically Generated Sound Due to a Rotating Disk |
| Chandrachud, Neha<br>HL 2009-4 | 2009 | MSECE | Meckl, P. | Classification of the Health of Diesel Engines Using Sparse Linear Discriminant Analysis |
| Chang, Eric | 2001 | MSME | Krousgrill, C./ Sadeghi, F. | Vibration of Angular Contact Bearings Lubricated with Grease |
| Chang, Hoyt | 2009 | MSME | Li, K. M. | Non-Thesis: Environmental Acoustics |
| Chang, Peter S. | 1991 | MSME | Jones, J.D. | Non-thesis.  Research Study on Active Control of Rotorcraft Interior Noise |
| Chang, Seo-il<br>HL 93-21 | 1993 | Ph.D. | Bajaj, A.K. | Studies in Non-Linear Multi-Mode Responses of Harmonically Excited Rectangular Plates with Internal Resonances |
| Chang, Yuan-Bin<br>HL 82-21 | 1982 | Ph.D. | Soedel, W. | A Finite Element Program for Predicting the Dynamic Response of the Axisymmetric Shell Structure "DRASS" |
| Chaturvedi, Nitin<br>HL 2000-15 | 2000 | MSME | Braun, J. | Analytical Tools for Dynamic Building Control |
| Chen, Bin<br>HL 2000-16 | 2000 | MSME | Braun, J.E. | Evaluating the Potential of On-Line Fault Detection and Diagnostics for Rooftop Air Conditioner |
| Chen, Chun | 2015 | Ph.D. | Chen, J. | Modeling Person-to-Person Contaminant Transport in Enclosed Environments |
| Chen, Li-Jen<br>HL 2009-10 | 2009 | Ph.D. | Mongeau, L. | Investigations of Mechanical Stresses Within Human Vocal Folds During Phonation |
| Chen, Sheng-Chih<br>HL 84-38 | 1984 | Ph.D. | Tree, D.R. | Transient Modeling of Heat Exchangers |

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|------|------|--------|--------------|-------|
| Chen, Wei Tai | 2016 | MSME | Chiu, G. | Non-thesis: Real-Time Defect Detection for Roll-to-Roll Thin Film Process |
| Chen, Xi | 2007 | MSME | Chen, Y. | A Numerical Study on Decontaminating Unoccupied Airliner Cabins |
| Chen, Yiyuan | 2011 | MSME | Yao, B. | Modeling and Precise Control of an Electro-Hydraulic System with Energy-Recovering via Valve and Accumulator Reconfiguration |
| Chen, Yu HL2000-17P | 2000 | Ph.D. | Groll, E.A. | Mathematical Modeling of Scroll Compressors |
| Cheng, Li | 2016 | MSME | Horton, W.T. | Non-thesis: Assessment of Alternative Technologies for Sustainable Housing Developments |
| Cheung, Howard HL 2014-4 | 2014 | Ph.D. | Braun, J. | Inverse Modeling of Vapor Compression Equipment to Enable Simulation of Fault Impacts |
| Cheng, Hung Ming | 2005 | Ph.D. | Chiu, G. T.-C. | Encoding of Sampled-Data Systems: Applications to Finite Wordlength Controller Implementation and Adaptive Sampling of Atomic Force Microscopy |
| Chernish, Dwight L. HL 70-39 | 1971 | MSME | Tree, D.R. | Analysis of a Comfort Control Which Uses Temperature and Humidity as Inputs |
| Chervil, Rudy | 2005 | MSME | Heber, A./Braun, J./ Groll, E. | Air Pollutant Emissions and Mitigation by Diet Manipulation at Two High-Rise Layer Barns |
| Cho, Phillip E. HL 93-20 | 1993 | Ph.D. | Bernhard, R.J. | Energy Flow Analysis of Coupled Structures |
| Cho, Yon Thong | 2006 | Ph.D. | Bolton, J.S. | Holographic Projection of Sound Fields Based on Spatially-Limited Data Sets |
| Cho, Yon Thung | 2002 | MSME | Bolton, J.S. | Spherical Acoustical Holography |
| Choi, Won Hong | 2011 | MSME | Bolton, J.S. | Influence of the Cavity Mode on Tire Surface Vibration |
| Choules, Brian D. | 1998 | Ph.D. | Kokini, K | Thermal Fracture of Ceramic Coatings Under High Heat Flux with Time-Dependent Behavior |
| Chowgule, Revati | 2018 | MSME | Davies, P. | Non-thesis: Characterization of the Dynamics of CONFOR Foam Undergoing Impulsive Excitation |
| Chung, H. Arthur HL 87-35 | 1987 | MSME | Hamilton, J.F. | Linear and Nonlinear Mathematical Modeling of the Steady State Vibration of Sealed Refrigeration Compressors |
| Chung, Jing-Yau HL 74-11 | 1974 | Ph.D. | Crocker, M.J. | Measurement and Analysis of Diesel Engine Noise |
| Clark, Jr., George A. HL 80-38 | 1980 | MSME | Sullivan, J.W. | Surface Radiated Noise Investigation of an Eight-Horsepower Air-Cooled Internal Combustion Engine |
| Coates, Donald A. HL 66-31 | 1966 | MS | Cohen, R. | Design and Digital Computer Simulation of a Reciprocating Free Piston Electrodynamic Gas |

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|------|------|--------|--------------|-------|
| | | | | Compressor |
| Coates, Donald A. HL 70-3 | 1970 | Ph.D. | Cohen, R. | Design Technique for Performance Optimization of a Small Rotary-Vane Compressor |
| Cole, Vernon G. HL 80-36 | 1980 | MSME | Crocker, M.J. | Prediction of the Noise Reduction of a Rectangular Steel Box Using Statistical Energy Analysis |
| Collicott, Howard E. HL 61-10 | 1961 | Ph.D. | Fontaine, W.E. | Radiation and Free Convection Studies of Wire and Tube Heat Exchangers |
| Comstock, Matthew HL99-20 | 1999 | MSME | Braun, J. | Development of Analysis Tools for the Evaluation of Fault Detection and Diagnostics in Chillers |
| Conrad, Daniel C. HL 94-22 | 1994 | Ph.D. | Soedel, W. | The Fundamentals of Automatic Washing Machine Design Based Upon Dynamic Constraints |
| Cook, Douglas HL 2005-16 | 2005 | MSME | Mongeau, L. | Computational Models of Fluid Flow, Structural Vibration and Fluid Structure Interactions of Human Phonation |
| Cook, Douglas HL 2009-6 | 2009 | Ph.D. | Mongeau, L and Nauman, E. | Systematic Structural Analysis of Human Vocal Fold Models |
| Cook, Gordon D. HL 63-25 | 1963 | MSME | Dixon, J.R. | Environmental Effects of Plant Leaf Temperature |
| Cooper, Kenneth W. HL 70-12 | 1970 | Ph.D. | Tree, D.R. | Predicting Energy Usage for Residential Dwellings |
| Couillard, Jack L. | 1972 | MSME | Hillberry, B.M. | Non-thesis. Research Study of a Fluid Measurement System |
| Covarrubias, A. J. | 2015 | MSME | Horton, W.T. | Non-thesis: Central Heating and Cooling Plant Optimization |
| Cuhat, Daniel R. | 1993 | MSME | Davies, P. | Non-thesis. Development of a Multi-Point Measurement System for Flexible Structures |
| Cuhat, Daniel R. HL99-12P | 1999 | Ph.D. | Davies, P. | Multi-Point Vibration Measurement Using PVDF Piezoelectric Film with Application to Direct Sensing of Modes in A Structure |
| Cummins, Josh | 2010 | MSME | Adams, D.E. | Center of Gravity Effects Using Forced Vibration Response Operational Data |
| Cunningham, Patrick J. HL 2000-23 | 2000 | MSME | Franchek, M.A. | Automated Speed Controller Synthesis for Internal Combustion Engines |
| Cunningham, Patrick J. HL 2006-17P | 2006 | Ph.D. | Meckl, P. | Monitoring Diesel Particulate Filters |
| Czapla, Nicholas | 2016 | MSME | Groll, E. | Performance Testing of a Unitary Split-System Heat Pump Utilizing an Energy Recovery Expansion Device |
| Dahlen, Rolf J. HL 59-9 | 1959 | MSME | Fontaine, W.E. | Climate Control with Air Source Heat Pump |

| NAME | YEAR | DEGREE | PROFESSOR(S) | TITLE |
|------|------|--------|--------------|-------|
| Dahlen, Rolf J.<br>HL 62-14 | 1962 | Ph.D. | Chaddock, J.B. | A Relation Between Heat and Mass Transfer Coefficients Verified for Adiabatic Evaporation from a Cylinder |
| Dale, O. Bruce<br>HL 70-2 | 1970 | Ph.D. | Cohen, R. | Multi-parameter Identification and Optimization Methods for Linear Continuous Vibratory Systems |
| Dana, Scott R. | 2011 | MSME | Adams, D.E. | Detection of Blade Damage and Ice Accretion for Health Monitoring of Wind Turbines Using Integrated Blade Sensors |
| Danforth, III, Robert J.<br>HL 96-14 | 1996 | MSME | Mongeau, L. | Sound Transmission Through Road Vehicle Primary Bulb Seal Assemblies |
| Dare, Tyler | 2012 | Ph.D. | Bernhard, R.J. | Generation Mechanisms of Tire-Pavement Noise |
| Davis, Coby L. | 1995 | MSME | Braun, J.E. | Non-thesis. Evaluation of Steady-State Detectors for Fault Detection and Diagnostics |
| Dawson, Jeffrey D.<br>HL 2002-4P | 2002 | MSME | Bernhard, R.J. | An Investigation of the Feasibility of Fluidics for Active Noise Control |
| de Bedout, Juan M. | 2000 | Ph.D. | Franchek, M. | Sequential Multivariable Feedback Controller Design for Fault-Tolerant Applications |
| de Bedout, Juan M. | 1996 | MSME | Franchek, M. | Adaptive-Passive Noise Control with Self-Tuning Helmholtz Resonators |
| de Souza Damasceno, Guido<br>HL 89-13 | 1989 | Ph.D. | Goldschmidt, V.W. | Interrelationship of Charge, Operating Conditions, and Type of Expansion Device on an Air/Air Heat Pump System |
| DeBoer, Christopher<br>HL 2001-14 | 2001 | MSME | Yao, B. | Energy-Savings Control of Electrohydraulic Systems with Over-Redundant Programmable Valves |
| Dedelow, James R.<br>HL 63-12 | 1963 | MSME | Dixon, J.R. | A Study of a Freon Gas Lubricated Hydrostatic Thrust Bearing |
| DeEskinazi, Jozef<br>HL 76-6 | 1976 | Ph.D. | Soedel, W./ Yang, H.T. | A Finite Element Model for the Stress Analysis of Pneumatic Tires in Contact with a Flat Surface |
| Deible, Richard W.<br>HL 63-13 | 1963 | MSME | Dixon, J.R. | A Numerical Solution to an Inverse Heat Conduction Problem with Phase Change in a Semi-Infinite Slab |
| Deignan, Paul B.<br>HL 2006-19 | 2006 | PhD | Meckl, P./King, G. | Information-Theoretic System Identification |
| Deignan, Paul B.<br>HL99-9 | 1999 | MSME | Meckl, P. | Virtual Sensing: The Development of a Methodology for Internal Combustion Engine Torque Estimation |
| Del Bene, J.V.<br>HL 65-18 | 1965 | Ph.D. | Chaddock, J.B. | Stability Theory Applied to Wave Formation in a Parallel Gas-Liquid Flow |
| Deng, Rong<br>HL 2004-10 | 2004 | Ph.D. | Davies, P./Bajaj, A. | Modeling and Characterization of Flexible Polyurethane Foam |

| NAME | YEAR | DEGREE | PROFESSOR(S) | TITLE |
|------|------|--------|--------------|-------|
| Denton, Nancy<br>HL 86-36 | 1986 | MSME | Bernhard, R.J. | Investigation of Air Mover Noise Testing Method |
| Deol, Raj K. | 1990 | MSME | Shoureshi, R. | Non-thesis.  Research Study of Experimental Investigation of Actuators for Self-Tuning Hydraulic Engine Mounts |
| Deshmukh, Yash A.<br>HL 2010-4 | 2010 | MSME | Davies, P./Bajaj, A. | Measurement of Foam Properties and Modeling of Layered Foam Systems |
| Deshpande, Ameya | 2016 | MSME | Meckl, P. | Non-thesis: Exhaust Temperature Management |
| DeVries, Loren A.<br>HL 94-16 | 1994 | MSME | Bolton, J.S. | Acoustical Holography in Spherical Coordinates for Noise Source Identification |
| Dhar, Bimal<br>HL 80-43 | 1980 | MSME | Soedel, W. | Transient Gas Pulsation Model of Helmholtz Type Pulse Combustion Devices |
| Dhar, Manmohan<br>HL 78-11 | 1978 | Ph.D. | Soedel, W. | Transient Analysis of Refrigeration System |
| Dharkar, Supriya | 2015 | MSME | Groll, E. | $CO_2$ Heat Pumps in Commercial Building Applications with Simultaneous Heating and Cooling Demand |
| Dietschi, Urs D.<br>HL 88-23 | 1988 | MSME | Bolton, J.S. | Identification, Assessment and Control of Noise Sources in a Domestic Vacuum Cleaner |
| Ding, Chuan | 2014 | Ph.D.. | Shaver, G. | Thermal Efficiency and Emission Analysis of Advanced Thermodynamic Strategies in a Multi-Cylinder Diesel Engine Utilizing Valve-Train Flexibility |
| DiPetta, Tiffany | 2011 | MSME | Adams, D.E. | Development and Verification of a Dagnostic Cleat for Detecting Faults in Military Wheeled Vehicles |
| Ditzler, John W.<br>HL 63-23 | 1963 | MSME | Chaddock, J.B. | Forced Convection Boiling of Refrigerants in an Internally-Finned Horizontal Tube |
| Dohner, Jeffrey L.<br>HL 87-43 | 1987 | Ph.D. | Shoureshi, R. | The Three-Dimensional Active Attenuation of Sound |
| Doige, Allan G.<br>HL 66-25 | 1966 | Ph.D. | Cohen, R. | A Stress and Vibration Analysis of a Leaf-Type Compressor Valve |
| Dolin, Ronald M.<br>HL 90-29 | 1990 | Ph.D. | Bernhard, R.J. | Integrating Modeling, Analysis, and Optimization into a Shape Variable Engineering Design Process |
| Doughty, Timothy<br>HL 2002-19 | 2002 | Ph.D. | Davies, P. | System Identification of Modes in Nonlinear Structures |
| Douglas, Jon D.<br>HL 95-21 | 1995 | MSME | Braun, J.E. | A Cost-Based Method for Comparing Alternative Refrigerants Applied to R-22 Systems |
| Drees, Kirk H.<br>HL 94-21 | 1994 | MSE | Braun, J.E. | Modeling and Control of Area Constrained Ice Storage Systems |
| Driftmyer, R.T.<br>HL 60-8 | 1960 | MSME | Agnew, J.T. | Explosions in Water Cooled Refrigeration Systems Equipped with a Hermetic Compressor |

| NAME | YEAR | DEGREE | PROFESSOR(S) | TITLE |
|------|------|--------|--------------|-------|
| D'Souza, Jason M.<br>HL 97-15 | 1997 | MSME | Starkey, J.M. | A Full-Vehicle Force-Based Steady-State Cornering Model |
| Dubrouillet, James N.<br>HL 90-5 | 1990 | MSME | Goldschmidt, V.W./ Jones, J.D. | Noise Control on a Pulse Furnace |
| Duraiswamy, Shivkumar | 2003 | MSME | Chiu, G.T.-C. | Nonlinear Adaptive Nonsmooth Dynamic Surface Control of Electro-Hydraulic Systems |
| Durchholz, Anthony J. | 1988 | MSME | Starkey, J.M. | Non-thesis.  Research Study on Dynamic Substructuring: An Automotive Application |
| Durham, Richard L. | 1971 | MSME | Soedel, W. | Non-thesis.  Research Study of Structures in Magnetic Fields |
| D'Valentine, Mark<br>HL 87-18 | 1987 | MSME | Goldschmidt, V.W. | A Combined Appliance:  Performance and Modeling |
| Eberhardt, Frank<br>HL 2011-1 | 2011 | MSME | Bolton, J.S./Davies, P. | Study of the Feasibility of Estimating Combustion Noise Radiation in Reverberant Environments |
| Edwards, John A.<br>HL 62-11 | 1962 | Ph.D. | Chaddock, J.B. | Free Convection and Radiation Heat Transfer from Fin-On-Tube Heat Exchangers |
| Egolf, David P.<br>HL 76-15 | 1976 | Ph.D. | Tree, D.R. | A Mathematical Scheme for Predicting the Electro-Acoustic Frequency Response of Hearing Aid Receiver-Earmold-Ear Systems |
| Eisele III, Edward H.<br>HL 69-48 | 1969 | Ph.D. | Leidenfrost, W. | A Study of the Optimum Rotating Heat Exchanger for Heat Pump Applications |
| Eisele,  III, Edward H.<br>HL 65-21 | 1965 | MSME | Fontaine, W.E. | The Determination of the Dynamic Viscosity of Several "Freon" Compounds at Temperatures in the Range, 200 F to -200 F |
| Ellis, Ronald M. | 1972 | MSME | Crocker, M.J./ Tree, D.R./ Czarnecki, S. | Non-thesis.  Research Study of Muffler Components |
| Elson, John P.<br>HL 72-9 | 1972 | Ph.D. | Soedel, W. | Gas Pressure Oscillations and Ring Valve Simulation Techniques for the Discharge Process of a Reciprocating Compressor |
| Elter, Michael<br>HL 82-6 | 1982 | MSME | Schoenhals, R.J. | Development of Performance Testing Procedures for Evaluation of Electrically Heated Thermal Energy Storage Central Units |
| Erb, Geoffrey A.<br>HL 97-8 | 1997 | MS | Starkey, J.M. | The Effects of Clearances on the Frequency Response of a Two-Degree-of-Freedom System |
| Erth, Richard A.<br>HL 66-26 | 1966 | MSME | Hawkins, G.A./ Chaddock, J.B. | Tube Flow Polymers |
| Erth, Richard A. | 1970 | Ph.D. | Tree, D.R. | Two-Phase Flow in Refrigeration Capillary Tubes: |

| NAME | YEAR | DEGREE | PROFESSOR(S) | TITLE |
|---|---|---|---|---|
| HL 69-39 | | | | Analysis and Prediction |
| Fain, David | 2014 | MSME | Shaver, G. | Operating Range Characterization and Expansion of Premixed Charge Compression-Ignited Combustion in a Multi-Cylinder Diesel Engine with Variable Valve Actuation, Variable Fuel Reactivity & Revised Turbomachinery |
| Fang, Lei HL2000-8P | 2000 | Ph.D. | Goldschmidt, V.W./ Abraham, J. | A Computational and Experimental Investigation of Clamshell Heat Exchangers in Residential Gas Furnaces |
| Farley, Kenneth J. | 1987 | MSME | Schoenhals, R.J. | Performance and Energy Consumption of a Household Refrigerator-Freezer |
| Faulkner, Lynn L. HL 66-33 | 1966 | MSME | Hamilton, J.F. | Stress Concentration in Refrigeration Compressor Crankshafts |
| Faulkner, Lynn L. HL 69-53 | 1969 | Ph.D. | Hamilton, J.F. | Vibration Analysis of Shell Structures Using Receptances |
| Faussett, Tom | 2012 | MSME | Groll, E. | Optimizing Refrigerant Distribution in a Evaporator of a Large Room Cooling System |
| Feist, Jeffrey HL 2001-21 | 2001 | MS | Bernhard, R.J./ Mongeau, L. | Noise Control and Speech Intelligibility Improvement of a Toll Plaza |
| Feldmaier, Doug A. HL 76-24 | 1976 | MSME | Tree, D.R. | Noise Identification of a Rotary Vane Compressor with Special Emphasis on the Cylinder Pressure |
| Ferren, W. Brent HL 91-24 | 1991 | MSME | Bernhard, R.J. | An Investigation of the Active Control of Structure-borne Road Noise in Automobile Cabins |
| Flachs, Michelle | 2015 | MSME | Rhoads, J. | Non-thesis: Vibration Reduction in Vertical Axis Washing Machines |
| Fleck, Trevor | 2017 | MSME | Rhoads, J. | Additive Manufacturing of Energetic Materials and Its Uses in Various Application |
| Flueckiger, Scott | 2013 | Ph.D. | Groll, E. | Multiscale Simulation of Thermocline Energy Storage for Concentrating Solar Power |
| Firth, Rowland V. HL 74-48 | 1974 | MSME | Hamilton, J.F. | Calculations of the Natural Frequencies and Mode Shapes of a Compressor Discharge Line by Using Finite Elements |
| Flory, Lloyd E. | 1970 | MSME | Cohen, R./ Crocker, M.J. | Non-thesis.  Research Study of a Microphone Sampling Tube |
| Foertsch, Kevin HL 2013-1 | 2013 | MSME | Davies, P. | The Number-of-Events as a Predictor Variable in Aircraft Noise Annoyance Models |
| Fogarty, Adam | 2014 | MSME | Meckl, P. | High Voltage Rear Electric Drivetrain Design for a Parallel-Through-the-Road Plug-in Hybrid Electric Vehicle |
| Forssen, Bjorn H. | 1979 | MSME | Crocker, M.J. | Non-thesis.  Research Study on Noise Reduction of Mufflers |

| NAME | YEAR | DEGREE | PROFESSOR(S) | TITLE |
|---|---|---|---|---|
| Forssen, Bjorn H.<br>HL 83-23 | 1983 | Ph.D. | Crocker, M.J. | Determination of Transmission Loss, Acoustic Velocity, Surface Velocity, and Radiation Efficiency by the Use of Two Microphone Techniques |
| Frabotta, Joseph<br>HL 91-9 | 1991 | MSME | Jones, J.D. | Investigation of Noise Generation Mechanisms and Transmission Paths of Fractional Horsepower Reciprocation Piston and Rolling Piston Compressors |
| Franzen, Mark F.<br>HL 79-13 | 1979 | MSME | Hamilton, J.F. | Mathematical Simulation of Refrigeration Compressor Vibrations |
| Freeman, Timothy<br>HL 2004-7 | 2004 | MSME | Adams, D.E. | Reduction of Vehicle Chassis Vibrations Using the Powertrain System as a Multi-Degree-of-Freedom Dynamic Absorber |
| Friley, John R.<br>HL 75-16 | 1975 | Ph.D. | Hamilton, J.F. | Finite Element Applications of a Precision Triangular Plate Bending Element to Linear Boundary Value Problems Governed by Extremum Principles |
| Gallant, Donald P.<br>HL 2005-7 | 2005 | MSME | Davies, P. | An Experimental Study of the Perceptual Attributes of Tonal Sounds and Annoyance with Application to Automotive Component Noise |
| Galloway, Jesse | 1987 | MSME | Goldschmidt, V.W. | Performance Benefits and Influence on Controls in a Non-Azeotropic Refrigerant Mixture Heat Pump |
| Gangopadhyay, Anupam | 1998 | Ph.D. | Meckl, P. | Load Compensation in a Lean Burn Natural Gas Vehicle |
| Gao, Mengqi | 2016 | MSME | Chiu, G./Allebach, J. | Toner Usage Prediction for Laser Electro-Photographic Printers |
| Gardner, Bryce K.<br>HL 87-20 | 1987 | MSME | Bernhard, R.J. | Noise Source Identification Using a Numerical/Experimental Helmholtz Integral Equation Method |
| Gardner, Bryce K.<br>HL 95-4 | 1995 | Ph.D. | Bolton, J.S. | External System Modeling with Application to Vibro-Acoustic Optimization |
| Garg, Akash | 2013 | MSME | Shaver, G. | Exhaust Thermal Management Using Intake Valve Closing Timing Modulation |
| Garimella, Phanindra V. | 2002 | MSME | Yao, B. | Nonlinear Adaptive Robust Observer for a Class of Nonlinear Systems with Application to the Velocity Control of Hydraulic Cylinder |
| Garimella, Phanindra V. | 2005 | Ph.D. | Yao, B. | An Adaptive Robust Framework for Model-Based Fault Detection |
| Garrett, Ronald W.<br>HL 76-23 | 1976 | MSME | Tree, D.R. | Heat Exchanger Performance in the Presence of Water Sprays |
| Gatley, William S.<br>HL 67-26 | 1967 | Ph.D. | Cohen, R. | Development and Evaluation of Methods for Design of Mufflers in Small Refrigeration Systems |
| Gayaka, Shreekant | 2010 | Ph.D. | Yao, B. | An Adaptive Robust Approach to Actuator Fault-Tolerant Control in Presence of Uncertainties and Input |

| NAME | YEAR | DEGREE | PROFESSOR(S) | TITLE |
|------|------|--------|--------------|-------|
| | | | | Constraints |
| Gerhold, Carl H.<br>HL 72-38 | 1972 | MSME | Hamilton, J.F. | Mathematical Model of a Single-Cylinder Compressor |
| Gerhold, Carl H.<br>HL 75-5 | 1974 | Ph.D. | Tree, D.R. | Use of Shelters to Protect a Vehicle Pass-By Noise Measurement Facility |
| Geveci, Mert<br>HL 2005-8 | 2005 | Ph.D. | Bernhard, R.J. | Robust Cylinder Health Monitoring for Internal Combustion Engines |
| Giacomoni, Clothilde<br>HL 2012-12 | 2012 | MSME | Davies, P. | Sound Quality of Supersonic Aircraft Noise as Heard Indoors and Its Impact on Annoyance |
| Giffels, Donald J.<br>HL 59-5 | 1959 | MSME | Fontaine, W.E. | Performance Characteristics of Air Source Heat Pump |
| Gill, Daniel E.<br>HL 75-24 | 1975 | MSME | Soedel, W. | The Determination of the Mechanical Properties of Automobile Tires |
| Gilmer, Deidre M.<br>HL98-14P | 1998 | MSME | Bernhard, R.J. | Signature Recovery Techniques With Applications to Engine Valve Trains |
| Glass, John W. | 1997 | MSME | Franchek, M. | NARMAX Modeling and Robust Feedback Control of Internal Combustion Engines |
| Glass, John W.<br>HL 2000-24 | 2000 | Ph.D. | Franchek, M.A. | Frequency Based Nonlinear Controller Design for Regulating Systems Subject to Time Domain Constraints |
| Glover, Billy W.<br>HL 78-2 | 1978 | MSE | Tree, D.R. | Effect of Holes in Close-Fitting Acoustical Enclosures |
| Gluck, Rafael<br>HL 63-8 | 1963 | Ph.D. | Cohen, R. | Fatigue Life Index Criteria for Compressor Leaf Valve Design (Development of Fatigue Life Index as a Criterion for Evaluating Compressor Leaf Design) |
| Gonzalez, Gonzalo J.<br>HL 83-7 | 1982 | MSME | Goldschmidt, V.W. | Modeling and Testing of Helically Finned-Tube Cross-Flow Heat Exchangers with Baffling Surfaces, Operating at Moderately Low Reynolds Number Fired Water Heater |
| Gordon, Donald T.<br>HL 68-47 | 1968 | MSE | Hamilton, J.F. | The Measurement and Analysis of Liquid Viscosity Date for Eight "Freon" Refrigerants |
| Gordon, Donald T.<br>HL 71-34 | 1971 | Ph.D. | Hamilton, J.F. | A Feasibility Study of Active Control to Improve the Performance and Vibration Characteristics of Rotor Blades |
| Gosselin, Jennifer | 2006 | MSME | Chen,Y. | A Ventilated Window for Indoor Air Quality Improvement in Residential Buildings |
| Graban, Allison | 2016 | MSME | Groll, E. | Non-thesis: Heat Pump Dryer |
| Graf, Peter L.<br>HL 87-45 | 1987 | Ph.D. | Shoureshi, R. | Semi-Active and Active Control of Frame Vibration in Automotive Vehicles |
| Graham, Todd | 2016 | MSME | Groll, E. | Non-thesis: TIRA – Thermally Integrated Residential Appliances |

| NAME | YEAR | DEGREE | PROFESSOR(S) | TITLE |
|---|---|---|---|---|
| Granger, Stede W/ | 1975 | MSME | Hawks, K.H. | Non-thesis.  Research Study of a Solar Energy Absorption System |
| Gray, Scott D. HL 89-20 | 1989 | Ph.D. | Starkey, J.M. | Structural Dynamics Modification, Optimization, and Substructure Separation |
| Green, Edward R. HL 86-43 | 1986 | MSME | Bolton, J.S. | Normal Incidence Sound Transmission Through Panel Constructions Containing Relatively Stiff, Partially Reticulated, Plastic Foam |
| Green, Edward R. HL 95-1 | 1995 | Ph.D. | Bolton, J.S. | An Examination of "Smart" Foams for Active Noise Control |
| Griebe, Roger W. HL 66-28 | 1966 | MSME | Winter, E.R.F. | Performance Parameters of Thermodynamic Cycles |
| Grinnip, Roger HL 2001-23 | 2001 | MSME | Mongeau, L. | Numerical Investigation of High Amplitude One-Dimensional Acoustic Standing Waves |
| Groom, Richard S. HL98-21P | 1998 | MSME | Bernhard, R.J. | A Model Quality Improvement Process Applied to Statistical Energy Analysis |
| Grzymala, Thomas HL 86-7 | 1986 | MSME | Tree, D.R. | Refrigerant Mass and Mass Flow Rate for Each Component in a Split Heat Pump System |
| Gul, Kamran HL 2009-11 | 2009 | Ph.D. | Adams, D.E. | Modeling and Analysis of Engine Cold-Test Cells for Optimizing Driveline Design for Structural Reliability and Engine Assemby Defect Diagnostics |
| Gunn, Kerry F. HL 77-33 | 1977 | MSME | Hamilton, J.F. | A Simulation Program for Modeling and Analysis of Solar Service Water Heating Systems |
| Gupta, Jitendra | 2010 | Ph.D. | Chen, Y. | Respiratory Exhalation/Inhalation Models and Prediction of Airborne Injection Risk in an Aircraft Cabin |
| Gupta, Nishi HL 84-5 | 1984 | MSME | Bernhard, R.J. | Analysis of the Transient Motion of a Compressor |
| Gupta, Rohinish HL 2016-4 | 2016 | MSME | Meckl, P. | Modelling and Control of a Parallel Through-the-Road Plug-In Hybrid Vehicle |
| Hagan, James P. HL 85-29 | 1985 | MSME | Tree, D.R. | Analytical and Experimental Study of a Prototype Recirculation Boiler |
| Hagenmeyer, Lorenz | 2000 | MSME | Bajaj, A | Non-thesis.  Occupied Car Seats Dynamics |
| Hahn, Jaesik | 2018 | Ph.D. | Reid, T. | How Heat Affects Human Hair: Thermal Characterization and Predictive Modeling of Flat Ironing Results |
| Haid, Daniel A. HL97-21 | 1997 | MSME | Mongeau, L. | Sound Source Identification Method for Turbomachinery |
| Halbe, Mayura | 2015 | MSME | Shaver, G. | Analysis and Algorithm Development for Diesel Engine Systems Utilizing Variable Valve Actuation to Enable Premixed Charge Compression Ignition and Cylinder Deactivation |

| NAME | YEAR | DEGREE | PROFESSOR(S) | TITLE |
|---|---|---|---|---|
| Hall, Carrie HL 2012-13 | 2012 | Ph.D. | Shaver, G. | Fuel-Flexible Combustion Control of Modern Combustion-Ignition and Spark-Ignition Engines |
| Hallman, Darren L. HL 92-31 | 1992 | MSME | Bolton, J.S. | Generalized Techniques for the Application of Nearfield Acoustical Holography in Industrial Measurement Environments |
| Hallman, Darren L. HL 96-3 | 1996 | Ph.D. | Bolton, J.S. | Nearfield Acoustical Holography for Interior Spaces |
| Halm, Nils HL97-31 | 1997 | MSME | Groll, E.A./ Braun, J.E./ Tree, D.R. | Mathematical Modeling of Scroll Compressors |
| Hamilton, Douglas C. HL 75-1 | 1975 | MSME | Leonard, R.G. | A Design Procedure for a Discharge Air Temperature Control System |
| Hamilton, G. Kent | 1996 | MSME | Franchek, M. | Robust Controller Design for Internal Combustion Engines |
| Hampton, III, John C. | 1984 | MSME | Goldschmidt, V.W. | Investigation of a Hydropowered Refrigeration System |
| Han, Fei HL99-8 | 1999 | Ph.D. | Bernhard, R./ Mongeau, L. | Prediction of Flow-Induced Sound and Vibration Using the Energy Flow Analysis Method |
| Hansen, Charles A. HL 72-17 | 1972 | Ph.D. | Soedel, W. | Elastic-Plastic Stress Analysis of Large Axisymmetrically Deflected Shallow Thin Shells of Revolution |
| Harms, Todd M. HL 2002-13 | 2002 | Ph.D. | Groll, E.A./ Braun, J.E. | Charge Inventory System Modeling Validation on Unitary Air Conditioners |
| Haroon, Muhammad N. HL 2003-17 | 2003 | MSME | Adams, D.E. | Nonlinear System Identification of a Tire-Vehicle Suspension System Using Response Transmissibility |
| Haroon, Muhammad N. HL 2007-12 | 2007 | Ph.D. | Adams, D.E. | A Methodology for Mechanical Diagnostics and Prognostics to Assess Durability of Ground Vehicle Suspension Systems |
| Harris, Daniel HL97-19 | 1997 | Ph.D. | Goldschmidt, V.W. | Heat Transfer Processes of Serpentine Tubular Heat Exchangers |
| Harrison, Richard H. HL 70-16 | 1970 | MSME | Hamilton, J.F. | Mathematical and Experimental Analysis of the Vibration of a Refrigeration Compressor |
| Hart, Gordon H. HL 78-58 | 1978 | MSME | Goldschmidt, V.W. | The Performance of the Air Distribution System and of an Air-to-Air Heat Pump in the Heating Mode on a Mobile Home |
| Hartwig, Troy J. HL 97-12 | 1997 | MSME | Bolton, J.S. | Measurements of the Acoustical Properties of Asphalt Surfaces in the Presence of Wind and Temperature Gradients |
| Haseltine, John D. HL 69-42 | 1970 | MSME | Qvale, B. | Part-Load Performance of Reciprocating Compressors |
| Hasselbring, D. Blake HL99-6P | 1999 | MSME | Starkey, J. | A Substructuring Technique to Predict Axle Vibration Due to Housing and Drive Train Component Interaction |

| NAME | YEAR | DEGREE | PROFESSOR(S) | TITLE |
|------|------|--------|--------------|-------|
| Hastings, Aaron<br>HL 2004-15 | 2004 | Ph.D. | Davies, P. | Sound Quality of Diesel Engines |
| Hayden, Richard E.<br>HL 70-23 | 1970 | MSME | Chanaud, R.D. | Sound Generation by Turbulent Wall Jet Flow over a Trailing Edge |
| Haydock, Paul M.<br>HL 88-31 | 1989 | MSME | Hittle, D.C. | Model of a Humidification System Using Steam Injection |
| Hayes, Paul A.<br>HL 77-40 | 1977 | MSME | Hamilton, J.F. | Experimental and Analytical Investigation of Diesel Engine Piston Impact and Noise |
| Hayward, Michael<br>HL 2013-4 | 2013 | MSME | Davies, P. | Identification and Modification of Dominant Noise Sources in Diesel Engines |
| He, Lei | 2004 | MSME | Bolton, J.S. | Non-Thesis:  Acoustic Arrays |
| Heatwole, Craig M.<br>HL 93-22 | 1993 | MSME | Bernhard, R.J. | Parametric Studies of the Active Control of Structure-Borne Road Noise |
| Heatwole, Craig M.<br>HL 97-7 | 1997 | Ph.D. | Bernhard, R.J./<br>Franchek, M.A. | Robust Feedback Control of Flow Induced Structural Radiation of Sound |
| Hegedes, Michael J. | 1984 | MS | Hamilton, J.F. | Non-thesis.  Research Study of Small Refrigeration Compressors |
| Heitkamp, Caleb | 2018 | MSME | Rhoads, J. | Experimental Wave and Material Property Measurements for an Elastomer Binder and Particulate Composite Material |
| Heitman, Karen E.<br>HL 83-42 | 1983 | MSME | Bernhard, R.J. | Investigation of the Noise Transmission into a Light Aircraft Cabin Using the Two-Microphone Sound Intensity Technique |
| Helfinstine, Robert A.<br>HL 64-4 | 1964 | MSME | Dixon, J.R. | The Convective Heat Transfer Coefficient of Blood |
| Helfinstine, Robert A.<br>HL 67-28 | 1967 | Ph.D. | Leidenfrost, W. | Wave Amplitude Study for Two-Phase Flow in a Horizontal Channel |
| Helmer, Wayne A.<br>HL 74-6 | 1974 | Ph.D. | Tree, D.R. | Condensing Water Vapor-Air Flow in a Parallel Plate Heat Exchanger |
| Henry, Ashwin<br>HL 2017-9 | 2017 | MSAAE | Arrieta, A. | Performance Augmentation of Compliance-Based Morphing Wings Through Optimization and Nonlinearity |
| Herman, Paul A.<br>HL 97-6 | 1997 | Ph.D. | Franchek, M.A. | Performance Enhancement of Regulating Systems Via Actuator Saturation |
| Hengeveld, Derek<br>HL 2010-9 | 2010 | Ph.D. | Braun, J./Groll, E. | Development of a System Design Methodology for Robust Thermal Control Subsystems to Support Responsive Space |
| Herrick, Brett | 1984 | MSME | Bernhard, R.J. | Non-thesis.  Research Study of Scaled Stiffness Matrices |
| Hilton, Bradford H.<br>HL 65-23 | 1965 | MSME | Hawkins, G.A./<br>Chaddock, J.B. | Optimization of the Periodic Flow Heat Exchanger |

| NAME | YEAR | DEGREE | PROFESSOR(S) | TITLE |
|---|---|---|---|---|
| Hipskind, J. Tim<br>HL 84-28 | 1984 | MSME | Goldschmidt,<br>V.W. | Analysis of Natural Cooling Cycle Design |
| Hirahara, Takuho | 1980 | MSE | Hamilton, J.F. | Non-thesis. Research Study on the Operating Crank Shaft Deflection of a Compressor |
| Hiremath, Jagdish<br>HL 2015-1 (pdf only) | 2015 | MSME | Meckl, P. | Development of UREA-SCR Dosing Control Strategies for a Diesel Electric Hybrid Car |
| Hjortland, Andrew | 2018 | Ph.D. | Braun, J. | Automated Fault Detections, Diagnostics, Impact Evaluation, and Service Decision-Making for Direct Expansion Air Conditioners |
| Holliday, William M.<br>HL 92-4 | 1992 | MSME | Goldschmidt,<br>V.W./ Jones, J.D. | Noise Control on a Pulse Furnace |
| Hollingsworth, Larry D.<br>HL 93-18 | 1993 | MSME | Bernhard, R.J. | Performance Prediction of Active Mount Vibration Control Using Finite Element Methods |
| Hollkamp, John | 2017 | MSME | Semperlotti, F. | Non-thesis: Model-Order Reduction of Lumped Parameter Systems via Fractional Calculus |
| Holloway, Seth | 2013 | MSME | Horton, W.T. | An Annual Performance Comparison of Various Heat Pumps in Residential Applications |
| Holman, J.L. Monte<br>HL 57-3 | 1957 | MSME | Witzell, O.W. | The Effect of a Variable Diameter Flow Orifice on the Performance of a Refrigeration System |
| Hommema, Scott E.<br>HL97-33 | 1997 | MSME | Goldschmidt,<br>V.W. | Condensation Heat Transfer in Pulsating Flow |
| Hornbostel, Hermann F.<br>HL 77-18 | 1977 | MSME | Sullivan, J.W. | Sound Power Determination of a Truck in a Semi-Anechoic Room |
| Horner, Jeffrey B.<br>HL 91-4 | 1991 | MSME | Meckl, P.H. | Active Vibration Control of Coupled Structures |
| Hong, Kwan Woo<br>HL 2009-2 | 2009 | Ph.D. | Bolton, J.S. | Acoustical Estimation of Macroscopic Properties of Poroelastic Materials |
| Horton, W. Travis<br>HL 2002-3 | 2002 | Ph.D. | Groll, E.A. | Modeling of Secondary Loop Refrigeration Systems on Supermarket Applications |
| Hou, Kang | 2009 | MSME | Bolton, J.S. | Measurement and Modeling of Micro-Perforated Panels |
| Houghton, Arthur V.<br>HL 60-7 | 1960 | Ph.D. | Witzell, O.W. | Discriminatory Optical Thermal Properties of Solids with Respect to Wavelength and Wavefront |
| Houtteman, Matthew R. | 2011 | MSME | Adams, D.E. | Applications of Eigenmode Coupling to Damage Detection in Beams |
| Howard, W. H.<br>HL 56-2 | 1956 | MSME | Fontaine, W.E./<br>Witzell, O.W. | A Study of Wire and Tube Heat Exchangers |
| Hsu, Mau-Pin | 1989 | Ph.D. | Soedel, W. | Investigation of Natural Mode Measurement on Shells |

| NAME | YEAR | DEGREE | PROFESSOR(S) | TITLE |
|---|---|---|---|---|
| HL 89-12 | | | | Using Hand Held Transducers with Special Attention to Compressor Shells |
| Hu, Ziqiang<br>HL 92-11 | 1992 | Ph.D. | Bolton, J.S. | Measurement and Prediction of Sound Propagation Over an Absorbing Plane (Final Report) |
| Huang, Andrew | 2011 | MSME | Li, K.M. | Non-thesis: Environmental Acoustics |
| Huang, David T.-Y.<br>HL 91-20 | 1991 | Ph.D. | Soedel, W. | On the Free and Forced Vibration of Plate-shell Combinations Using the Receptance Method |
| Huang, H.C. Gary<br>HL 84-1 | 1984 | Ph.D. | Schoenhals, R.J. | Heat Transfer in a Pulse Combustion Water Heater |
| Huang, Shyh-Chin | 1987 | Ph.D. | Soedel, W. | Effects of Coriolis Acceleration on the Vibrations of Spinning Structures |
| Hubacher, Beat<br>HL 2003-24 | 2003 | MSME | Groll, E.A. | Experimental and Theoretical Performance Analysis of Carbon Dioxide Compressors |
| Huff, Jr., John E.<br>HL 92-35 | 1992 | MSE | Jones, J.D. | Development of a Measurement Technique to Evaluate Rotor Chatter in Twin Screw Compressors |
| Huff, Jr., John E.<br>HL 97-2 | 1997 | Ph.D. | Bernhard, R.J. | Analysis of Structural Systems in the Mid Frequency Range |
| Hugenroth, Jason J.<br>HL 2006-8P | 2006 | Ph.D. | Braun, J.E./Groll,E.A./ King, G. | Liquid Flooded Ericsson Cycle Cooler |
| Hughes, J. Michael<br>HL 72-19 | 1972 | MSME | Qvale, B./ Pearson, J.T. | A Study of Heat Transfer and Valve Phenomena in a Reciprocating Compressor |
| Hunckler, Charles J.<br>HL 79-8 | 1979 | Ph.D. | Soedel, W. | The Dynamic Behavior of an Automobile Tire |
| Hundhausen, R. Jason<br>HL 2004-8 | 2004 | MSME | Adams, D.E. | Mechanical Loads Identification and Diagnosis for a Standoff Metallic Thermal Protection System Panel in a Semi-Realistic Thermo-Acoustic Operating Environment |
| Hung, Yu-Wei | 2015 | MSME | Horton, W.T. | Non-thesis: Development of Research Facilities for Chilled Beam Testing |
| Hylton, Larry D.<br>HL 67-30 | 1967 | MSME | Kotansky, D.R. | A Comparison of Four Different Residential Heating Systems |
| Hylton, Peter D.<br>HL 82-42 | 1982 | MSME | Hamilton, J.F. | High Speed Rotor Dynamics Using Fluid Film Journal Bearings |
| Idem, Stephen A. | 1986 | Ph.D. | Goldschmidt, V.W. | An Instantaneous Condensing Gas-Fired Water Heater: Modeling and Performance |
| Inamdar, Harshad | 2012 | MSME | Groll, E. | Non-Thesis: Performance Comparison of Two-Phase Fluids in Heat Pipes for Electronics Cooling |
| Ingram, Grant A. | 2005 | Ph.D. | Chiu, G./Franchek, M. | Lean Nox Trap Modeling for Lean Burn Engine Control and Improved Fuel Economy |

| NAME | YEAR | DEGREE | PROFESSOR(S) | TITLE |
|---|---|---|---|---|
| Ingram, Grant A. HL99-11P | 1999 | MSME | Franchek, M./ Chiu, G. | Improving Operator Perception of Machine Response |
| Ippili, Rajani HL 2003-5 | 2003 | MSE | Davies, P./ Bajaj, A | System Identification of Quasi-Static Foam Behavior and Its Application in the Prediction of Static Equilibrium Position of a Car Seat Occupant |
| Israr, Ali | 2007 | Ph.D. | Chiu, G. | Tactual Transmission of Phonetic Features |
| Jacobi, Anthony M. | 1989 | Ph.D. | Goldschmidt, V.W. | High Efficiency Boilers: Condensation and Transient Behavior |
| Jacquot, Raymond G. HL 69-49 | 1969 | Ph.D. | Cohen, R. | A Study of Level Passages in the Transient Response of Linear Vibration Systems Subject to Random Excitation |
| Jadhav, Bilwa | 2014 | MSME | Shaver, G. | Integration and Implementation of High-Voltage Energy Storage Sub System for a Parallel-Through-The-Road Plug-In Hybrid Electric Vehicle |
| Jaeger, Deane B. HL 76-36 | 1976 | MSE | Tree, D.R. | Noise Source Identification and Noise Reduction of a Small Air Cooled Internal Combustion Engine |
| Jain, Kaushal HL 2017-4 | 2017 | MSME | Meckl, P. | Modeling of $NH_3$ Stoarge in Vanadia-Based SCR Catalyst for Urea-Dosing Control in a Diesel-Electric Hybrid Car |
| Jankov, Dusan HL 85-17 | 1985 | MSME | Soedel, W. | Valve Failure Detection in Refrigeration Compressors |
| Jaques, Janette HL 2006-13 | 2006 | MSME | Adams, D.E. | Headrest Rattle: Nonlinear Model Identification and Analysis |
| Jaques, Janette (married name "Meyer") | 2011 | Ph.D. | Adams, D.E. | Using Impact Modulation to Identify Loose Bolts in a Satellite Structure |
| James, ScottHL 2007-11 | 2007 | MSME | Meckl, P. | Diesel Engine Diagnostics Using Singular Spectrum Analysis |
| Jaramillo, Rita | 2018 | Ph.D. | Braun, J. | A Multi-Agent Control Approach for Optimization of Central Cooling Plants |
| Jatana, Gurneesh | 2014 | Ph.D. | Lucht, R./Shaver, G. | High-Speed Diode-Laser-Absorption Measurements of Gas Dynamics for Diesel Engines |
| Jenkins, Peter E. HL 74-45 | 1974 | Ph.D. | Goldschmidt, V.W. | A Study of the Intermittent Region of a Heated Two-Dimensional Plane Jet |
| Jenkins, Steven T. HL 80-12 | 1980 | MSME | Soedel, W. | Reduction of Transmitted Vibration Forces Through the Support Springs of a Compressor |
| Jeon, Bonggil HL 2016-5 | 2016 | Ph.D. | Horton, W.T. | A Method for Selecting HVAC Retrofit Solutions for Existing Small- and Medium-Sized Commercial Buildings |
| Jessop, Andrew HL 2009-8 | 2009 | MSME | Li, K. M. | A Study of the Effects of Panel Stiffness on Transmission of Low-Frequency Sound |

| NAME | YEAR | DEGREE | PROFESSOR(S) | TITLE |
|------|------|--------|--------------|-------|
| Jessop, Andrew | 2013 | Ph.D. | Bolton, J.S. | Near-Field Pressure Distributions to Enhance Sound Transmission Through Multi-Layer Materials |
| Jiang, Hao | 2008 | Ph.D. | Adams, D.E. | Material Damage Modeling and Detection in a Thin Metallic Sheet and Sandwich Panel Using Passive Acoustic Transmission |
| Jin, Mingang | 2014 | Ph.D. | Chen, Y. | Building Airflow Simulations with Fast Fluid Dynamics |
| Jin, Xing | 2017 | Ph.D. | Shaver, G. | Physics-Based Computationally Efficient Battery Degradation Model and Electric Machine Scaling Strategy for Hybrid Electric Vehicle Design Optimization |
| Johnson, Carl N. HL 69-36 | 1969 | Ph.D. | Hamilton, J.F. | Fractional Horsepower, Rotary Vane, Refrigerant Compressor Sound Source Investigation |
| Johnson, Carl N. HL 79-35 | 1979 | MSME | Goldschmidt, V.W. | Measurement of Energy Use and Efficiency Characteristics of a Residential Gas-Fired Water Heating System |
| Johnson, Joel Scott HL97-30 | 1997 | MSME | Mongeau, L. | An Experimental Study of Flow-Excited Cavity Resonance Suppression Techniques |
| Johnson, Timothy HL 2002-18 | 2002 | MSME | Adams, D.E. | Analysis of Dynamic Transmissibility as a Feature of Structural Damage Detection |
| Johnson, Timothy HL 2006-20P | 2006 | Ph.D. | Adams, D.E. | Diagnostics of Bead Area Damage in Rolling Tire Durability |
| Johnston, Roy C. HL 61-8 | 1961 | MSME | Chaddock, J.B. | Radiative Heat Transfer from Finned Tube Heat Exchangers |
| Johnston, Roy C. HL 63-18 | 1963 | Ph.D. | Chaddock, J.B. | Heat Transfer and Pressure Drop of Refrigerants Evaporating in Horizontal Tubes |
| Jones, Steven R. HL 73-17 | 1973 | MSME | Crocker, M.J. | The Design of Acoustic Enclosures for Diesel-Powered Commercial Vehicles |
| Joshi, Alok A. HL 2007-13 | 2007 | Ph.D. | Meckl, P. | Strategies for Data-Based Diesel Engine Fault Diagnostics |
| Joshi, Gauri HL 2010-2 | 2010 | MSME | Davies, P./Bajaj, A.K. | Planar Whole-Body Vibratory Response of a Nonlinear Multi-Body Model of a Seat-Occupant System with Polyurethane Foam |
| Joshi, Mrunal | 2017 | MSME | Shaver, G. | Diesel Engine Cylinder Deactivation for Improved Systems Efficiency While Maintaining Elevated Aftertreatment Temperatures |
| Jovane, Miguel | 2002 | MSME | Braun, J.E./ Groll, E.A. | Non-thesis. Phase Optimization Separator |
| Jovane, Miguel HL 2007-7 | 2007 | Ph.D. | Braun, J.E./Groll, E.A. | Modeling and Analysis of a Novel Rotary Compressor |
| Kach, Edwin A. | 1975 | MSME | Tree, D.R./ | Augmentation of Convective Heat Transfer from Heat |

| NAME | YEAR | DEGREE | PROFESSOR(S) | TITLE |
|---|---|---|---|---|
| HL 75-26 | | | Goldschmidt, V.W. | Exchangers by Spraying Water |
| Kaemmer, Norbert HL 78-36 | 1978 | MSME | Crocker, M.J. | Sound Power Determination from Surface Intensity Measurements on a Cylinder |
| Kakade, Ravindra HL 2011-3 | 2011 | MSME | Meckl. P. | Fault Detection Using Spectral Methods: Wavelets and Correlation Techniques |
| Kang, Yeon June HL 94-25 | 1994 | Ph.D. | Bolton, J.S. | Studies of Sound Absorption By and Transmission Through Layers of Elastic Noise Control Foams: Finite Element Modeling and Effects of Anisotropy |
| Kankatala, Veerabhadra | 2003 | MSME | Mongeau, L. | Non-thesis.  Friction Based Vibrations |
| Karam, Doug | 1985 | MSME | Krousgrill, C.M. | Non-thesis.  Research Study on Noise Source Identification |
| Karthikeyan, Ganesh Ram Ramanujam | 2018 | MSME | Cappelleri, D. | Non-Thesis:  Software In-The Loop Simulation for Custom Aerial Vehicles |
| Kartsounes, George T. HL 70-4 | 1970 | Ph.D. | Tree, D.R. | Flow Characteristics of Solenoid Valves |
| Kashima, Koji HL 83-47 | 1983 | MS | Tree, D.R. | Non-thesis.  Transient Analysis of Direct Cooling-Type Refrigerator Freezer |
| Katragadda, Srinivas HL98-18 | 1998 | MSME | Bolton, J. S. | A Model for Sound Absorption by and Sound Transmission Through Limp Fibrous Layers |
| Keeney, Kevin R. | 1995 | MSME | Braun, J.E. | Building Characteristics and Control Strategies for the Use of Building Thermal Mass in Cooling |
| Keivan Esfahani, Darioush | 2016 | MSME | Li, K.M. | Non-thesis: Gear Vibration Analysis |
| Kess, Harold HL 2005-15 | 2005 | MSME | Adams, D.E. | Investigation of Operational and Environmental Variability Effects on Damage Detection Algorithms in Heterogeneous (Woven Composites) Plates |
| Kesto, Nathan | 2016 | MSME | Groll, E. | Non-thesis: Dryer End-of-Cycle Detection |
| Key, Richard W. HL 78-50 | 1978 | MSME | Tree, D.R. | Noise Study of a Lawn and Garden Tractor |
| Khosrovani, Hooshang HL 69-50 | 1969 | Ph.D. | Cohen, R./ Chanaud, R. | Response of a Thin Wall Cylindrical Duct to a Random Pressure Field |
| Kim, Donghun HL 2015-7 (pdf only) | 2015 | Ph.D. | Braun, J. | Development and Applications of Models and Algorithms for Model-Predictive Control in Buildings |
| Kim, Han Jun HL 92-24 | 1992 | Ph.D. | Soedel, W. | Computer Simulation of Gas Pulsation Generated Sound in Compressors |
| Kim, Janghyun | 2016 | Ph.D. | Braun, J. | Evaluating the Performace of Passive Chilled Beams with Respect to Energy Efficiency and Thermal Comfort |
| Kim, Je Chul HL 70-20 | 1970 | Ph.D. | Qvale, B. | An Analytical and Experimental Study of Heat Transfer and Flow-Friction Characteristics for Periodically Reversing Flow Through the Porous Matrix of Thermal |

| NAME | YEAR | DEGREE | PROFESSOR(S) | TITLE |
|------|------|--------|--------------|-------|
| | | | | Regenerators |
| Kim, Jeong-Woo<br>HL 2005-6 | 2005 | Ph.D. | Bolton, J.S. | Sound Transmission Through Lined, Composite Panel Structures: Transversely Isotropic Poro-Elastic Model |
| Kim, Jong Hyuk<br>HL 88-6 | 1988 | Ph.D. | Soedel, W. | Simulation of a High Speed Hermetic Compressor with Special Attention to Gas Pulsations in Three Dimensional Continuous Cavities |
| Kim, Jong Shik<br>HL 86-4 | 1986 | Ph.D. | Soedel, W. | Three Dimensional Transient Stress Wave Propagation in a Plate with Application to Compressor Valve Failure Analysis |
| Kim, Jun-Hyeung<br>HL 2002-14 | 2002 | MSME | Groll, E.A./<br>Braun, J.E. | Performance Comparison of a Unitary Split System Using Microchannel and Fin-Tube Outdoor Coils |
| Kim, Jun-Hyeung<br>HL 2005-14 | 2005 | Ph.D. | Groll, E.A. | Analysis of a Bowtie Compressor with Novel Capacity Modulation |
| Kim, Nicholas<br>HL 2011-10 | 2011 | MSME | Bolton, J.S. | Numerical Modeling of Microperforated Acoustical Materials |
| Kim, Nicholas | 2016 | Ph.D. | Bolton, J.S. | Optimal Design of Sound Absorbing Systems with Microperforated Panels |
| Kim, Sung Jin<br>HL 92-32 | 1992 | Ph.D | Jones, J.D. | A Study of Piezoelectric Actuators for Active Noise and Vibration Control |
| Kim, Uiji<br>HL 2006-9 | 2006 | Ph.D. | Mongeau, L./Krousgrill, C. | Friction-Induced Vibrations and Squeal of Glass-Run Window Sealing Systems |
| Kim, Woohyun<br>HL 2009-12 | 2009 | MSME | Braun, J. | Evaluaton of a Virtual Refrigerant Charge Sensor |
| Kim, Woohyun | 2013 | Ph.D. | Braun, J. | Fault Detection and Diagnosis for Air Conditioners and Heat Pumps Based on Virtual Sensors |
| Kim, Yong Joe<br>HL 2003-15 | 2003 | Ph.D. | Bolton, J.S. | Visualization of Tire Vibration and Sound Radiation and Modeling of Tire Vibration with an Emphasis on Wave Propagation |
| Kim, Yoon-Ki | 2000 | Ph.D. | Soedel, W. | Forced Response of Tires with Mass Nonuniformities Using Ring Models |
| Kim, Yoon-Ki<br>HL 95-20 | 1995 | MSME | Soedel, W. | The Analysis and Simulation of Gas Pulsations in a Valve-Muffler System of a Rolling Piston Compressor |
| Kin, John W.<br>HL 77-15 | 1977 | MSME | Pearson, J.T. | Terminal Unit Study for the Purdue Chilled Water System |
| Kincaid, Nicholas | 2012 | MSME | Groll, E. | Humidity Ratio Detection as a Means of Dryer Cycle Termination |
| King, Yi-Shu | 2015 | Ph.D. | Qu, Ming | An Integrated System of Vapor-Compression Chiller and Absorption Heat Pump: Experiment, Modeling, and Energy and Economic Evaluation |

| NAME | YEAR | DEGREE | PROFESSOR(S) | TITLE |
|------|------|--------|--------------|-------|
| Kinney, G. Thomas<br>HL 68-21 | 1968 | MSME | Hamilton, J.F. | Mathematical Simulation of the Vibration of a Refrigeration Compressor |
| Kipp, Carl R.<br>HL 85-26 | 1985 | MSME | Bernhard, R.J. | Prediction of Sound Fields in Acoustical Cavities Using the Boundary Element Method |
| Klos, Jake<br>HL 2001-1P | 2001 | MSME | Bernhard, R. | Modeling Cylindrical Shell Dynamics Using Energy Flow Methods: An Analytical and Experimental Validation |
| Koai, Kwang-Lu<br>HL 90-21 | 1990 | Ph.D. | Soedel, W. | Mathematical Modeling of Twin Screw Compressors with Special Attention to Gas Pulsations in Three-Dimensional Gas Paths |
| Kocher, Lyle<br>HL 2012-6 | 2012 | Ph.D. | Shaver, G. | Physically-based Modeling, Estimation and Control of the Gas Exchange and Combustion Processes for Diesel Engines Utilizing Variable Intake Valve Actuation |
| Koeberlein, Ed<br>HL 2011-8 | 2011 | MSME | Shaver, G. | Physics-Based Modeling aand Estimation of Exhaust Manifold Filling Dynamics on a Diesel Engine Equipped with Flexible Intake Valve Actuation |
| Koffman, Scott J. | 1997 | Ph.D. | Franchek, M.A. | A Modified Gaussian Neural Network and Growth/Training Algorithm for On-Line Identification of Nonlinear Dynamic Systems |
| Kohrman, Glenn J.<br>HL 87-41 | 1987 | MSME | Bernhard, R.J. | An Investigation of a Sound Power Measurement Fixture for Internal Combustion Engines |
| Kompella, Murty S.<br>HL 92-13 | 1992 | Ph.D. | Bernhard, R.J. | Improved Multiple-Input/Multiple Output Modeling Procedures with Consideration of Statistical Information |
| Konieczny Jr., Peter<br>HL 90-17 | 1990 | MSME | Bolton, J.S. | Development of a Noise Prediction Scheme for Low-Noise Centrifugal Blowers |
| Konstantzos, Iason<br>HL 2016-7 | 2016 | Ph.D. | Tzempelikos, T. | A Human-Centered Approach for the Design of Perimeter Office Spaces Based on Visual Environment Criteria |
| Kook, Hyungseok<br>HL97-32 | 1997 | Ph.D. | Mongeau, L. | Prediction and Control of the Interior Pressure Fluctuations in a Flow-Excited Helmholtz Resonator |
| Korenic, Branislav<br>HL 77-46 | 1977 | MSME | Leidenfrost, W. | Analysis of the Enhancement of Heat Transfer by Spraying Water on a Finned Condenser Coil |
| Korenic, Branislav<br>HL 80-47 | 1980 | Ph.D. | Leidenfrost, W. | Augmentation of Heat Transfer by Evaporative Cooling to Reduce Condensing Temperatures |
| Kostek, Theodore M. | 1998 | MSME | Franchek, M. | Hybrid Noise Control in Ducts |
| Kostek, Theodore M.<br>HL 2005-3P | 2005 | Ph.D. | Franchek, M. | Aging of Zeolite Based Automotive Hydrocarbon Traps with Applications to Diagnostics |
| Koster, John T.<br>HL 78-34 | 1978 | MSME | Hawks, K.H. | Part Load Performance Analysis of Centrifugal Chillers |
| Kotalik, Bruce D. | 1969 | MSME | Soedel, W. | Computer Simulation of a Five Horsepower High Speed |

| NAME | YEAR | DEGREE | PROFESSOR(S) | TITLE |
|------|------|--------|--------------|-------|
| HL 69-29 | | | | Reciprocating Compressor |
| Krasson, William L.<br>HL 86-42 | 1986 | MSME | Bolton, J.S. | Noise Mechanisms of Turbochargers |
| Krishna, Abhinav<br>HL 2015-9 (pdf only) | 2015 | Ph.D. | Groll, E. | Analysis of a Rotating Spool Expander for Organic Rankine Cycle Applications |
| Kristiansen, Ulf<br>HL 70-22 | 1970 | MSME | Soedel, W. | An Investigation of Modeling Laws in Vibration with Special Attention to the Effects of Shear and Rotary Inertia |
| Krueger, Manfred<br>HL 88-14 | 1988 | MSME | Hamilton, J.F. | Theoretical Simulation and Experimental Evaluation of an Hermetic Rolling Piston Rotary Compressor |
| Ku, Jentung<br>HL 80-29 | 1980 | Ph.D. | Leidenfrost, W. | Determination of Two-Phase Friction Factors for Void Fraction and Boiling Heat Transfer Evaluation |
| Kuehl, Steven<br>HL 87-26 | 1987 | MSME | Goldschmidt, V.W. | Study, Validation and Improvement of a Model for Sizing a Capillary Tube for an Air-Conditioning/Heat Pump System |
| Kuehlert, Heinrich F.<br>HL 80-5 | 1980 | MSME | Schoenhals, R.J. | Development of Performance Testing Procedures for Evaluation of Room-Size Electrically Heated Thermal Energy Storage Unit |
| Kulkarni, Anup M.<br>HL 2008-6 | 2008 | MSME | Shaver. G. | Investigation of High Efficiency, Ultra-Low Emission, Advanced Mode Diesel Combustion in a Validated, Flexible and Computatinally Efficient Whole Engine Model |
| Kulkarni, Mukta<br>HL 2016-6 | 2016 | MSME | Meckl, P. | Determining Fuel Type From Estimates of Bulk Modulus Using Rail Pressure Measurements |
| Kultgen, Derek | 2013 | MS | Groll, E., Hutzel, W., Motevalli, V. | Assessing the Energy Reduction Potential of a Cold Climate Heat Pump |
| Kumar, Vijay | 2010 | MSME | Rhoads, J. | Non-Thesis: Vibration Attenuation and Amplification |
| Kumar, Vijay | 2011 | Ph.D. | Rhoads, J. | Nontraditional Methods of Mass Sensing Using Isolated and Coupled Microcantilevers |
| Kumra, Anurag | 2016 | MSME | Chiu, G. | Non-thesis: Functional Inkjet Printing-Back Pressure Volume Modulation and Print Mask |
| Kuo, Yan-Fu | 2011 | Ph.D. | Chiu, G. | Improving Tone Consistency and Reducting Calibration Frequency for Color Electrophotography |
| Kung, Lin-E. | 1984 | Ph.D. | Soedel, W. | Vibration Transmission of Structures |
| Kung, Lin-E.<br>HL 81-24 | 1981 | MSME | Sullivan, J.W. | Noise Source Identification of a Lawn Mower Engine by Conventional and Ordinary Coherence Function Methods |
| Kung, Yi-Shu | 2015 | Ph.D. | Qu, M. | An Integrated System of Vapor-Compression Chiller and Absorption Heat Pump: Experiment, Modeling, and Energy and Economic Evaluation |

| NAME | YEAR | DEGREE | PROFESSOR(S) | TITLE |
|------|------|--------|--------------|-------|
| Kuo, Yan-Fu | 2005 | MSME | Chiu, G. T.-C. | Non-thesis:  Equivalent System Mass Analysis and Reduction for Urine and Solid Waste Treatment for Advanced Life Support |
| Kurth, Scott W.<br>HL 96-13 | 1996 | MSME | Bernhard, R.J. | The Effect of Nonlinearities on Active Noise Control Systems |
| Kusmanto, Robin<br>HL 2009-3 | 2009 | MSME | Adams, D.E. | Modeling and Simulation of an Optimized Wireless Network in a Naval Ship System of Systems |
| Kyle, Trevor | 2018 | MSME | Rhoads, J. | Synthesis of Inhomogeneous Waves Using the Least-Squares Method |
| Kwak, Jaeho (Tony) | 2005 | Ph.D. | Yao, B. | Modeling and Control of an Electromechanical Brake (Brake-by-Wire) System |
| LaFrance, Leo J.<br>HL 74-35 | 1974 | Ph.D. | Hamilton, J.F. | The Development of a Nonlinear Constrained Optimization Algorithm for Application to Simulated Systems |
| Lai, Dayi | 2017 | Ph.D. | Chen, Y. | Modeling Thermal Comfort in Outdoor Environments |
| Lai, Heng Yi<br>HL97-34P | 1997 | Ph.D. | Bolton, J.S. | Modeling of Acoustical Properties of Limp Fibrous Materials |
| Lai, Peter Chang-Ching<br>HL 96-8 | 1996 | Ph.D. | Soedel, W. | A General Procedure for the Analysis of Gas Pulsations in Thin Compressor or Engine Manifolds and Thin Shell Type Mufflers |
| Lal, Mahendra | 1967 | MSME | Hamilton, J.F. | Non-thesis.  Research Study on Noise Analysis of a Compressor Line |
| Lamb, Glenn<br>HL 81-1 | 1980 | MS | Tree, D.R. | Seasonal Performance of Air Conditioners:  An Analysis of the DOE Test Procedures – Thermostat and Measurement Errors |
| Larsen, David W.<br>HL 86-39 | 1986 | MSME | Hamilton, J.F. | High Speed Rotor Dynamics of Systems Using Fluid Film Journal Bearings |
| Larson, David A. | 1986 | MSME | Bernhard, R.J. | Non-thesis. Research Study on Internal Combustion Engine Noise Sources |
| Laster, W. Ray<br>HL 82-7 | 1982 | MSME | Schoenhals, R.J. | A Study of Testing Procedures Developed for Room Size, Off Peak Electrical Thermal Energy Storage Units |
| Lau, Josephine | 2005 | MSME | Chen, Y. | The Performance of Floor-Supply Displacement Ventilation in Workshop Configurations with Measurements and Simulation Studies |
| Laux, Peter C.<br>HL 92-7 | 1992 | MS | Davies, P. | The Identification of Signal Parameters that Influence the Perception of Sound Quality |
| Laux, Peter C.<br>HL98-10 | 1998 | Ph.D. | Davies, P. | Using Artificial Neural Networks to Model the Human Annoyance to Sound |
| Lavernia, Alejandro | 2018 | MSME | Groll, E. | Micro-Scale Waste Heat Recovery from Stationary |

| NAME | YEAR | DEGREE | PROFESSOR(S) | TITLE |
|------|------|--------|--------------|-------|
| | | | | Internal Combustion Engines by Sub-Critical Organic Rankine Cycle Utilizing Scroll Machinery |
| Laville, Fredric<br>HL 77-35 | 1977 | Ph.D. | Soedel, W. | Muffler Design by Scaling Using Engine Characteristics |
| Lawrence, Thomas M.<br>HL 2004-2 | 2004 | Ph.D. | Braun, J.E. | Methodologies for Evaluating Demand-Controlled Ventilation Retrofits in HVAC Applications |
| Le, Dat | 2014 | Ph.D. | Shaver, G. | Physically-based Modeling, Estimation, and Control of Piezoelectric Fuel Injection during Rate Shaping Operation |
| Lee, Hsu Chew | 2012 | MSME | Li, K.M. | A Study of Low Speed Flow Noise and Its Reduction by Numerical Simulations |
| Lee, James J.<br>HL 83-32 | 1983 | Ph.D. | Soedel, W. | Computer Simulation of Pulsations in a Gas Fired Pulse Combustion Device and Predictions of Their Exhaust Noise for Single and Dual Combustion Chamber Designs |
| Lee, Ki Sup | 2011 | Ph.D. | Chen, Y. | Air Distribution Effectiveness and Thermal Stratification with Stratified Air Distribution Systems |
| Lee, Kuan Horng<br>HL 77-38 | 1977 | MSME | Leidenfrost, W. | Analysis and Design of a Refrigeration System of a 100 MWH Load Leveling Z Cl Battery |
| Lee, Kyoung Ho<br>HL 2006-18 | 2006 | Ph.D. | Braun, J. | Demand-Limiting Control Using Building Thermal Mass in Commercial Buildings |
| Lee, Kyoung-ho<br>HL 2006-18 | 2006 | Ph.D. | Braun, J. | Demand-Limiting Control Using Building Thermal Mass in Commercial Buildings |
| Lee, Kyoung-Hoon<br>HL 2006-16 | 2006 | Ph.D. | Davies, P. | Perception of Tones in Machinery Noise and Its Influence on Annoyance |
| Lee, Moohyung<br>HL 2004-21 | 2004 | Ph.D. | Bolton, J.S. | Acoustical Visualization of Aeroacoustic Sources |
| Lee, Seungkyu | 2015 | Ph.D. | Bolton, J.S. | Application of Microperforated Elements in Axial Fan Noise Control and Silencer Design |
| Lee, Warburg N.<br>HL 86-44 | 1986 | MSME | Goldschmidt, V.W. | Characterization of Heat Transfer, Pressure Drops and Mass Leakage Within a Reversing Valve |
| Lee, Yong-Chun<br>HL 82-37 | 1982 | Ph.D. | Sullivan, J.W. | The Lumped Parameter Method for Elastic Impact Problems |
| Leffler, Robert | 2011 | MSME | Groll, E. | Power Plant Waste Heat Rejection and Utilization Options |
| Lennarson, James A. | 1984 | MSME | Hawks, K.H. | Non-thesis. Research Study of Heating Ventilation and Air Conditioning Control |
| LeRoy, Jason<br>HL97-25 | 1997 | MSME | Groll, E./ Braun, J. | Capacity and Power Demand of Unitary Air Conditioners and Heat Pumps Under Extreme Temperature and Humidity Conditions |

| NAME | YEAR | DEGREE | PROFESSOR(S) | TITLE |
|------|------|--------|--------------|-------|
| Lewis, Alfred E. | 1969 | MSME | Cohen, R. | Non-thesis.  Research Study of a Vane Vibration Indicator |
| Li, Daqing<br>HL 2001-7 | 2001 | MSME | Groll, E.A. | Theoretical and Experimental Investigation of a Carbon Dioxide Based Air Conditioning System |
| Li, Daqing<br>HL 2006-4 | 2006 | Ph.D. | Groll, E.A. | Investigation of an Ejector-Expansion Device in a Transcritical Carbon Dioxide Cycle for Military ECU Applications |
| Li, Gang<br>HL 2001-19P | 2001 | MSME | Braun, J./  Groll, E./ Frankel, S. | A Numerical and Experimental Investigation of Refrigerant Flow Control Devices |
| Li, Haorong<br>HL 2004-14 | 2004 | Ph.D. | Braun, J.E. | A Decoupling-Based Unified Fault Detection and Diagnosis Approach for Packaged Air Conditioners |
| Li, Yaoyu<br>HL 2004-5 | 2004 | Ph.D. | Chiu, G.T.-C. | Active and Adaptive-Passive Control of Acoustic Impedance Matching with Thermoacoustic Cooling Applications |
| Liles, Gregory D.<br>HL 90-8 | 1990 | MSME | Bernhard, R.J. | An Investigation of Structural Dynamic Shape Optimization |
| Lim, Jimin | 2006 | Ph.D. | Bolton, J.S./Bernhard, R.J./Krousgrill, C.M. | Statistical Energy Analysis for a Compact Refrigeraton Compressor and Model Improvement |
| Lin, Chao Ping<br>HL 80-44 | 1980 | MS | Schoenhals, R.J. | Development of Performance Testing Procedures for Evaluation of Electrically Heated Thermal Energy Storage Central Units |
| Lin, Hong-Yuh<br>HL 88-17 | 1988 | Ph.D. | Hamilton, J.F. | A Time Domain Approach for Noise Source Identification in Periodic Systems |
| Lin, Tsing-Fa<br>HL 82-30 | 1982 | Ph.D. | Hawks, K. | Theoretical and Experimental Study of Heat Transfer Characteristics of Cabinet Calorimeter System |
| Linden, Aaron | 2017 | MSME | Groll, E. | Non-thesis: In-Home Hydroponic Appliance |
| Ling, Shih-Fu<br>HL 76-14 | 1976 | Ph.D. | Hamilton, J.F. | A Finite Element Method for Duct Acoustic Problems |
| Liu, Feng | 2009 | Ph.D. | Chiu, G. | Modeling and Control of a Two Component Development Process for Xerography |
| Liu, Haotian | 2017 | MSME | Groll, E. | Performance Analysis of an Updraft Tower System for Dry Cooling in Large-Scale Power Plants |
| Liu, Sheng | 2011 | Ph.D. | Li, K.M. | The Propagation of Sound from a Monopole and Directional Source Near a Layered Ground |
| Liu, Song | 2005 | Ph.D. | Yao, B. | Automated Modeling and Energy Saving Adaptive Robust Control of Electro-Hydraulic Systems with Programmable Valves |

| NAME | YEAR | DEGREE | PROFESSOR(S) | TITLE |
|------|------|--------|--------------|-------|
| Liu, Song | 2002 | MSME | Yao, B. | Non-thesis.  Optimal energy-saving control of electro-hydraulic systems using programmable valves |
| Liu, Wei | 2014 | MSME | Chen, Y. | Experimental and Numerical Study of the Air Distribution in an Airliner Cabin |
| Liu, Wei | 2017 | Ph.D. | Chen, Y. | Inverse Design of Enclosed Environment by CFD-Based Adjoint Method |
| Liu, Yangfan | 2011 | MSME | Bolton, J.S. | Sound Field Reconstruction and its Application in Loudspeaker Sound Radiation Prediction |
| Liu, Yangfan | 2016 | Ph.D. | Bolton, J.S. | Efficient Modeling of Sound Source Radiation in Free-Space and Room Environments |
| Liu, Zheji<br>HL 93-11 | 1993 | Ph.D. | Soedel, W. | Simulation of a Variable Speed Compressor with Special Attention to Supercharging Effects |
| Liu, Zheji<br>HL 93-12 | 1993 | Ph.D. | Soedel, W. | Instructions of the Computer Simulation Program (A Supplementary Report) |
| Lowery, Richard L.<br>HL 61-6 | 1961 | Ph.D. | Cohen, R. | High Speed Compressor Valve Noise and Vibration Studies |
| Lu, Lu | 2013 | Ph.D. | Yao, B. | A Performance-Oriented Multi-Loop Control of Systems with Constraints and Uncertainties |
| Lu, Xueting (Sylvia) | 2016 | MSME | Shaver, G. | Improving Fuel Economy During High Load Diesel Engine System Operation Through Valve Tain Flexibility |
| Lumpkin, Domenique | 2016 | MSME | Groll, E. | Non-thesis: Performance of an Air Cycle Heat Pump |
| Magee, Mark | | MSME | Shaver, G. | Exhaust Thermal Management Using Cylinder Deactivation and Late Intake Valve Closing |
| Mandic, Douglas S.<br>HL 89-31 | 1989 | MSME | Jones, J.D. | Adaptive Active Control of Enclosed Sound Fields in Elastic Cylinders Via Vibrational Inputs |
| Manon, Terry M.<br>HL 74-55 | 1975 | MSME | Leidenfrost, W. | The Design and Use of an Instrument to Determine the Boiling Heat Transfer Coefficient Within a Hollow, Airfoil Shaped Blade Under High Centrifugal Accelerations |
| Marcus, Bradley F.<br>HL99-25TP | 1999 | MSME | Groll, E./<br>Goldschmidt,<br>V.G. | Effects of Applications on Reliability of Performance of Unitary Split Systems |
| Marshall, Andrew J.<br>HL 2007-10 | 2007 | MSME | Davies, P. | A Preliminary Investigation into the Perceptual Characteristics of Low Level Sonic Booms Heard Outdoors |
| Marhshall, Andrew J.<br>HL 2012-2 | 2012 | Ph.D. | Davies, P. | Development of a Model of Startle Resulting from Exposure to Sonic Booms |
| Marshall, Steven E.<br>HL 84-27 | 1984 | MSME | Bernhard, R.J. | Investigation of Acoustic Resonance in Cavities |

| NAME | YEAR | DEGREE | PROFESSOR(S) | TITLE |
|------|------|--------|--------------|-------|
| Martin, Brett G.<br>HL 2003-4 | 2003 | MSME | Meckl, P. | The Use of Information Theory in Input Space Selection for Modeling and Diagnostic Applications |
| Masters, Alan R.<br>HL 93-5 | 1993 | MSME | Jones, J.D. | Design Guidelines for Embedded Piezo-Actuators in a Layered Composite Structure |
| Mathison, Margaret M.<br>HL 2011-5 | 2011 | Ph.D. | Braun, J./Groll, E. | Modeling and Evaluation of Advanced Compression Techniques for Vapor Compression Equipment |
| Mathur, Gopal P.<br>HL 81-30 | 1981 | Ph.D. | Crocker, M.J. | Vibration and Sound Energy Flow in Three-Dimensional Box-Like Structures |
| Maulik, Indranil | 2000 | MSME | Mongeau, L./<br>Braun, J. | Effect of Body Forces on Thermodynamic Cycles |
| Maxwell, Gregory<br>HL 84-34 | 1984 | Ph.D. | Goldschmidt,<br>V.W. | Non-thesis. Mathematical Modeling of an Instantaneous Gas Fired Water Heater |
| May, Philip G.<br>HL99-3 | 1999 | MSME | Davies, P./<br>Bolton, J.S. | Assessment of Refrigerator Sound Quality |
| Mazumdar, Sagnik | 2009 | Ph.D. | Chen, Y. | Transmission of Airborne Contaminants in Airliner Cabins |
| McCabe, Sarah A. | 1998 | Ph.D. | Davies, P. | Nonlinear Digital System Identification Application Vibrating Structures |
| McCann, Larry D.<br>HL 78-54 | 1978 | Ph.D. | Leonard, R.G. | Development of a New Operations Amplifier for Use in Pneumatic System Design |
| McConnell, Robert R.<br>HL 70-6 | 1970 | MSME | Cohen, R. | Prediction and Measurement of Instantaneous Compressor Crankshaft Speed |
| McCracken, William E.<br>HL 69-52 | 1969 | Ph.D. | Leidenfrost, W. | An Analysis of the Effects of Resistance Thermometers in a Thermophysical Properties Instrument |
| McCullum, R.G.<br>HL 58-10 | 1958 | MSME | Witzell, O.W. | High Temperature Viscosity Measurements of Fluorinated Hydrocarbon Compounds in the Vapor Phase |
| McCutchan, Richard D.<br>HL 73-39 | 1973 | MSME | Pearson, J.T./<br>Leonard, R.G. | A Simple Dynamic Model of a Finned Serpentine Heat Exchanger |
| McGary, Michael<br>HL 80-2 | 1980 | MSME | Crocker, M.J. | Noise Source Identification of Diesel Engines Using Surface Intensity Measurements |
| McGee, Gavin<br>HL 2002-12P | 2002 | MSME | Adams, D.E. | Characterization of Nonlinearity in a Tire-Vehicle Suspension System |
| McGuire, Sarah | 2010 | MSME | Davies, P. | Non-thesis: Effects of Aircraft Noise |
| McGuire, Sarah<br>HL 2012-4 | 2012 | Ph.D. | Davies, P. | Modeling Aircraft Noise Induced Sleep Disturbance |
| McKay, Shawn | 2009 | Ph.D. | Adams, D.E. | A Control Theory Based Hybrid Architecture to Anticipate and Shape Adversarial Behavior |
| McKellar, Michael G. | 1987 | MSME | Tree, D.R. | Failure Diagnosis for a Household Refrigerator |

| NAME | YEAR | DEGREE | PROFESSOR(S) | TITLE |
|------|------|--------|--------------|-------|
| HL 87-44 | | | | |
| McKellar, Michael G.<br>HL 92-17 | 1992 | Ph.D. | Tree, D.R./<br>Hamilton, J.F. | Optimization of a Household Refrigerator Considering Alternative Refrigerants |
| McKenzie, Robert T. B.<br>HL 65-20 | 1965 | MSME | Chaddock, J.B. | Flow Characteristics of Solenoid Valves |
| McKinsey, Joshua | 2006 | MSME | Chiu, G. T.-C. | Interfacing a Force-Feedback Joystick With Hydraulic Robot Arm |
| McLaughlin, Kevin<br>HL 85-6 | 1985 | MSME | Shoureshi, R. | Temperature-Entropy Bond Graphs for Dynamics and Control of Refrigerators |
| McMillan, Harry K.<br>HL 63-17 | 1963 | Ph.D. | Fontaine, W.E. | A Study of Flow Patterns and Pressure Drop in Horizontal Two-Phase Flow |
| McMullen, Andrew | 2014 | MSME | Davies, P. | Assessment of Noise Metrics for Application to Rotorcraft |
| McQuiston, Faye C.<br>HL 70-49 | 1970 | Ph.D. | Tree, D.R. | Optimization of Fin-Tube and Plate-Fin Heat Transfer Surfaces Operating Under Conditions of Forced Convection |
| Mejia, Paloma<br>HL 2007-9 | 2007 | MSME | Mongeau, L. | Experimental and Numerical Investigation of Separated-Reattached Flows Behind Uniform and Notched Spoilers |
| Memering, Douglas<br>HL99-21 | 1999 | MSME | Meckl, P. | The Application of Adaptive Control Algorithms to the Low Idle Governor of a Heavy Duty Engine |
| Menghmalani, Yeshaswi | 2017 | MSME | Jain, N. | Dynamic Modeling and Validation of Power Generators |
| Menkhaus, Daniel E.<br>HL 71-32 | 1972 | MSME | Hamilton, J.F. | Prediction of Instability in the Valve Motion of a Pneumatic Thermostat |
| Mennem, Rex C. | 2004 | Ph.D. | Krousgrill, C.M. | Parametrically Excited Vibrations in Spiral Bevel Geared Systems |
| Mercer, Kevin B.<br>HL 2003-3 | 2003 | MSME | Braun, J.E. | Modeling and Testing Strategies for Evaluating Ventilation Load Reduction Technologies |
| Mercer, Nicholas S.<br>HL 97-3 | 1997 | MSME | Starkey, J.M. | Analysis of the Characteristics and Response of an Engine Equipped with Nonlinear Engine Mounts Subjected to Variable Applied Loads |
| Merrill, Kyle | 2003 | MSME | Chiu, G.T.-C. | Perturbation Observer Design and Cylinder Piston Velocity Estimation for Electro-Hydraulic Systems |
| Meyer, Alan | 2011 | MSME | Adams, D.E. | Damage Identification of Healthy Monitoring of Ground Vehicle Through Active Probing of Vehicle Response |
| Meyer, Daniel R.<br>HL 67-29 | 1967 | MSME | Hamilton, J.F. | Mathematical Model and Digital Computer Simulation of the Steady-State Response of a Residence |
| Meyer, Donald H.<br>HL 63-19 | 1963 | MSE | Fontaine, W.E. | The Viscosity of Superheated Steam at 400 F from One Atmosphere to Saturation Pressure |

| NAME | YEAR | DEGREE | PROFESSOR(S) | TITLE |
|---|---|---|---|---|
| Meyer, Rick | 2012 | Ph.D. | Adams, D. | Modeling and Control of a Fuel Cell-Battery Hybrid Vehicle |
| Meyer, William A. HL 87-16 | 1987 | MSME | Thompson, H.D. | An Investigation into Heat Transfer Processes in a Small Hermetic Refrigeration Compressor |
| Michaud, Eugene R. HL 66-12 | 1966 | MSME | Chaddock, J.B. | Forced Convection Boiling of Refrigerants in Horizontal Tubes |
| Mickol, John D. HL 86-40 | 1986 | MSME | Bernhard, R.J. | An Investigation of Energy Transmission Due to Flexural Wave Propagation in Lightweight, Built-up Structures |
| Miller, Jacob | 2014 | MSME | Rhoads, J. | Non-thesis: The Thermomechanical Responses of Composite Energetic Materials to Acoustic and Ultrasonic Excitation |
| Miller, Jacob | 2016 | Ph.D. | Rhoads, J. | The Thermomechanical Response of Composite Energetic Material Under High- and Low-Frequency Mechanical Excitations |
| Miller, Joseph L. HL 83-46 | 1983 | MSME | Hamilton, J.F. | A Simulation Program for Modeling and Analysis of an Air Conditioning System |
| Milner, Joseph R. HL 87-24 | 1987 | Ph.D. | Bernhard, R.J. | Acoustic Shape Optimization |
| Minner, Brian L. HL 96-6 | 1996 | MSME | Braun, J.E. | Design Optimization for Thermoacoustic Cooling Systems |
| Mirth, David R. HL 93-1 | 1993 | Ph.D. | Ramadhyani, S. | Experimental Studies and Mathematical Modeling of Chilled-Water Cooling Coils |
| Mitra, Eeshan HL 2017-1 | 2017 | MSME | Krousgrill, C. | Effects of Time-Varying Mesh Stiffness and It's Modifications on Planetary Gear Dynamics |
| Mizerik, Robert L. HL 87-31 | 1987 | MSME | Tree, D.R. | Mathematical Model of a Closed Loop Boiler with Experimental Verification |
| Moallemi, M. Karim HL 81-2 | 1980 | MSME | Goldschmidt, V.W. | Visualization and Characterization of a Two-Dimensional Turbulent Jet |
| Moaveni, Michael HL 72-1 | 1972 | Ph.D. | Hamilton, J.F./ Cohen, R. | The Prediction of Dynamic Strain in Leaf-Type Compressor Valves with Variable Mass and Stiffness |
| Modiyani, Rajani HL 2010-1 | 2010 | MSME | Shaver, G. | Effect of Intake Valve Closure Timing on Effective Compression Ratio and Gas Exchange Process of a Modern Diesel Engine |
| Moebs, Gregory B. HL97-28 | 1997 | MSME | Bolton, J.S./ Davies, P. | De-Dopplerization and Visualization of Sound Fields Emitted by Moving Noise Sources |
| Mohanty, Amit | 2010 | Ph.D. | Yao, B. | Some Generalizations to the Theory of Adaptive Robust Control and Its Application |
| Mohrfeld, Jaclynn | 2006 | MSME | Franchek, M.A. | Systematic Feedforward Transient Fueling Identification for Internal Combustion Engines |

| NAME | YEAR | DEGREE | PROFESSOR(S) | TITLE |
|---|---|---|---|---|
| Mollo, Christopher G.<br>HL 87-25 | 1987 | MSME | Bernhard, R.J. | A Numerical Method for Analyzing the Optimal Performance of Active Noise Controllers |
| Momin, Zafar A.<br>HL 83-19 | 1983 | MSME | Hamilton, J.F. | Finite Element Techniques in Wave Propagation Analysis |
| Montgomery, Kent<br>HL98-17 | 1998 | MSME | Braun, J. | Development of Analysis Tools for the Evaluation of Thermal Mass Control Strategies |
| Montgomery, Stephen W.<br>HL 2000-21 | 2000 | Ph.D. | Goldschmidt, V.W./ Franchek, M.A. | Surface Microscopy and Particle Adhesion |
| Montgomery, Stephen W.<br>HL 97-11 | 1996 | MSME | Goldschmidt, V.W./ Franchek, M.A. | Thermal Performance of Clothes Dryers: Vacuum Drying |
| Moore, James W.<br>HL 72-12 | 1972 | MSME | Crocker, M.J. | The Low Frequency Sound Radiation Characteristics of Panels and Beams |
| More, Ranjit<br>HL 2011-6 P | 2011 | MSME | Meckl, P. | Diagnostics of Advanced Diesel Fuel Injectors |
| More, Shashikant<br>HL 2010-7 | 2010 | Ph.D. | Davies, P. | Aircraft Noise Characteristicsd and Metrics |
| Morris, F. Bruce<br>HL 93-6 | 1993 | MSME | Braun, J.E. | Experimental and Simulated Performance of Optimal Control of Building Thermal Storage |
| Morse, Phillip R.<br>HL 95-19 | 1995 | MSME | Starkey, J.M. | Development and Verification of a Force-Based Roll Center Model for Vehicle Suspensions |
| Mosiman, Douglas E.<br>HL 73-20 | 1973 | MSE | Soedel, W./ Leidenfrost, W. | The Feasibility of Rotating Hermetic Compressors |
| Mulej, David J.<br>HL 75-32 | 1975 | MSME | Goldschmidt, V.W. | The Velocity of the Interface in a Plane Jet |
| Mulej, Kathleen M.<br>HL 76-4 | 1975 | MSE | Tree, D.R. | Noise Source Identification for a Garden Tractor |
| Murphy, William E.<br>HL 77-52 | 1977 | MSME | Goldschmidt, V.W. | Mobile Home Air Conditioning: An Analysis of Seasonal Performance |
| Mynderse, James A. | 2012 | Ph.D. | Chiu, G. | Two Degree-of-Freedom Hysteresis Compensation for a Dynamic Mirror with Antagonistic Piezoelectric Stack Actuation |
| Murphy, William E.<br>HL 80-20 | 1980 | Ph.D. | Goldschmidt, V.W. | Analysis of Cycling Effects of Residential Air Conditioners |
| Mutyala, Brahmji R.C.<br>HL 75-41 | 1975 | Ph.D. | Soedel, W. | A Mathematical Model of Helmholtz Resonator Type Gas Oscillation Discharges of Two-Cycle Engines |
| Mynderse, James | 2004 | MSME | Chiu, G. | Design and Control of a Steering Wheel Vibration Simulator for Human Perception Testing |

| NAME | YEAR | DEGREE | PROFESSOR(S) | TITLE |
|------|------|--------|--------------|-------|
| Nakayama, Kazuhiko<br>HL 79-15 | 1979 | MSE | Crocker, M.J. | Prediction of the Sound Pressure Level Inside a Vibrating Rectangular Steel Box Using Statistical Energy Analysis |
| Narciso, Melodie M.<br>HL 79-20 | 1979 | MSE | Schoenhals, R.J. | Ice Formation by Injection of Cold Air into Water |
| Nasr, Karim J. | 1990 | MSME | Hittle, D.C. | Energy Use Estimates of Ice Storage/Heat Recovery Systems in Large Office Buildings |
| Nataraju, Madhura<br>HL 2003-7 | 2003 | MSME | Adams, D.E. | A Transitionary Nonlinear Dynamic Approach for Modeling and Simulating Damage Evolution in a Cantilevered Structure |
| Navarro de Andrade, Joao Eduardo | 1995 | MS | Goldschmidt, V. | Investigation of Rotary Compressor Oil Carry-Over |
| Nayyar, Soumya | 2016 | MSME | Shaver, G. | Implementation and Analysis of Reverse Breathing, Rebreathing and Cylinder Deactivation for Aftertreatment Thermal |
| Neckowicz, Theodore<br>HL 83-5 | 1983 | MSME | Goldschmidt, V.W. | Refrigerant Flow Measurements – Application of Hot-Wire Anemometry |
| Nerz, Jr., Alfred R.<br>HL 69-1 | 1969 | MSME | Hamilton, J.F. | Mathematical Modeling and Digital Computer Simulation of the Thermal Response of a Residence |
| Nguyen, Han V.<br>HL 81-6 | 1981 | MSME | Goldschmidt, V.W. | Seasonal Performance Characteristics of Air Conditioners: Analysis of the DOE Test Procedures |
| Nguyen, Han V.<br>HL 86-41 | 1986 | Ph.D. | Goldschmidt, V.W. | Reversing Valve Heat Transfer and Pressure Drops and Their Effect on the Steady-State Performance of a Heat Pump |
| Nickel, David A.<br>HL 92-26 | 1992 | MSE | Krousgrill, C.M./ Sadeghi, F. | Analysis of the Dynamics of an X-Ray Tube Rotor |
| Nishioka, Kazumitsu<br>HL 80-3 | 1980 | Ph.D. | Soedel, W. | Nonlinear Analysis of Electromagnetic Linear Motor Compressors |
| Niu, Weiguang<br>HL 94-4 | 1994 | MSE | Franchek, M. | Robust Controller Design for Highly Coupled Multivariable Systems |
| Noerager, J.A.<br>HL 65-22 | 1965 | MSME | Chaddock, J.B. | Forced Convection Boiling of Refrigerants in Horizontal Tubes |
| Novotny, Whitney | 2017 | MSME | Rhoads, J. | Inkjet Printing of Metallic Initiators |
| Nyenhuis, Andria | 2017 | MSME | Groll, E. | Non-thesis: Rainwater Storage Appliances |
| Nyika, Simbarashe<br>HL 2013-2 | 2013 | MSME | Braun, J.E. | Development, Validation and Application of General Gray-Box Models for Ductless and Ducted Residential Heat Pumps |
| Oberjohn, William J.<br>HL 60-3 | 1960 | MSME | Fontaine, W.E. | Some Design Criteria for a Finned Tube Heat Exchanger Under Natural Convection |

| NAME | YEAR | DEGREE | PROFESSOR(S) | TITLE |
|------|------|--------|--------------|-------|
| Obregon, Jamie E.<br>HL 70-33 | 1970 | MSME | Tree, D.R. | A Mathematical Model for the Mechanical System of an Electromagnetic Pump |
| Ochsner, Scott D.<br>HL 91-25 | 1991 | MSME | Bernhard, R.J. | Structure-borne Noise Modeling of Automotive Suspension and Vehicle Systems |
| Odstrcil, Troy | 2018 | MSME | Shaver, G. | Variable Valve Actuation Strategies for Improving Aftertreatment System Efficiency in Modern Diesel Engines over the Heavy-Duty Federal Test Procedure Certification Cycle |
| Offerman, Klaus<br>HL 81-3 | 1981 | MSME | Tree, D.R. | Time Constants and the Performance of a Heat Pump in the Cooling Mode Under Different Test Conditions |
| Offhaus, Carl<br>HL 86-28 | 1986 | MSME | Goldschmidt, V.W. | Performance of Flueway Baffles in Gas-Fired Water Heaters |
| Oh, Hilario L.<br>HL 63-22 | 1963 | MSME | Cohen, R. | Dynamic Strains on a High Speed Compressor Discharge Valve |
| Oh, Joon-Yeon | 1995 | MSME | Bolton, J.S. | Non-thesis.  Finite Element Models for Sound Transmission |
| Oler, James W.<br>HL 80-6 | 1980 | Ph.D. | Goldschmidt, V.W. | Coherent Structures in the Similarity Region of a Two Dimensional Turbulent Jet:  A Vortex Street |
| O'Neal, Dennis<br>HL 82-45 | 1982 | Ph.D. | Tree, D.R. | The Effect of Frost Formation on the Performance of a Parallel Plate Heat Exchanger |
| Ortiz, Thomas<br>HL 2002-17 | 2002 | Ph.D. | Groll, E.A. | Development of New Model for Investigation of the Performance of Carbon Dioxide as a Refrigerant for Residential Air Conditioners |
| Osburn, Andrew W.<br>HL 2003-25 | 2003 | Ph.D. | Chiu, G.T.-C./ Franchek, M.A. | Performance Enhancement of Internal Combustion Engines Using Crank-Angle Domain Control |
| Ott, III, E. Stan<br>HL 72-33 | 1972 | MSME | Goldschmidt, V.W. | Convective Velocities in a Plane Jet |
| Otte, Allen A.<br>HL 66-29 | 1966 | MSME | Chaddock, J.B. | Two-Phase Flow Characteristics of Ammonia-Water Solutions in a Horizontal Tube |
| Padilla-Navas, Eduardo<br>HL 70-34 | 1971 | MSME | Soedel, W. | Computer Simulation of a Two-Cylinder Refrigeration Compressor with Special Attention to the Cylinder and Cavity Interaction |
| Padmanabhan, Hemanth | 2001 | MSME | Franchek, M. | Non-thesis.  Engine Diagnostics |
| Padmanabhan, Ranganathan<br>HL 82-12 | 1981 | MSME | Schoenhals, R.J. | An Experimental and Analytical Study of Capillary Tube-Suction Line Heat Exchanger |
| Paek, Insu<br>HL 2005-17 | 2005 | Ph.D. | Mongeau, L./Braun, J.E. | Performance Characterization of Thermoacoustic Cooler Components and Systems |
| Palmer, Andrew<br>HL 2000-12 | 2000 | MSME | Yao, B. | Indirect Adaptive Robust Control of Nonlinear Systems with Application to Electro-Mechanical/Hydraulic Systems |

| NAME | YEAR | DEGREE | PROFESSOR(S) | TITLE |
|------|------|--------|--------------|-------|
| Pan, Fumin<br>HL 95-14 | 1995 | Ph.D. | Jones, J.D. | A Study of Piezoelectric Transducers in Application to Active Control of Reciprocating Compressor Noise |
| Pande, Lalit<br>HL 82-18 | 1982 | Ph.D. | Crocker, M.J. | Engineering Applications of Plane Wave Duct Acoustics |
| Pandeya, Prakash N.<br>HL 78-44 | 1978 | Ph.D. | Soedel, W. | Performance Analysis of a Positive Displacement Refrigerating Compressor |
| Panicker, Malavika | 2018 | MSME | Meckl, P. | Non-thesis: Control of an Adaptive Refrigeration Cycle |
| Panuganti, Chaitanya | 2016 | MSME | Shaver, G. | Control-Oriented Modeling, Vallidation, and Analysis of a Natural Gas Engine Architecture |
| Papanek, W.J.<br>HL 58-12 | 1958 | MSME | Witzell, O.W. | Convective Film Coefficients for a Wire and Tube Heat Exchanger |
| Paripovic, Jelena | 2013 | MSME | Davies, P. | Characterization and Modeling of Materials Used in Improvised Explosive Devices |
| Paripovic, Jelena<br>Hl 2018-1 | 2018 | Ph.D. | Davies, P. | Identification of the Low Frequency Dynamic Behavior of Surrogate Explosive Materials |
| Park, Jeong-il<br>HL 2004-16P | 2004 | Ph.D. | Adams, D.E. | Mathematical Modeling and Simulation of a Multi-Cylinder Automotive Compressor |
| Park, Jong Beom | 2006 | Ph.D. | Mongeau, L. | Instantaneous Orifice Discharge Coefficients of Driven Physical Models of the Human Larynx |
| Park, Junhung<br>HL 2002-1 | 2002 | Ph.D. | Mongeau, L. | Effects of Mechanical Properties of Sealing Systems on Aerodynamic Noise Generation Inside Vehicles |
| Pate, Michael B.<br>HL 82-11 | 1982 | Ph.D. | Tree, D.R. | A Theoretical and Experimental Analysis of Capillary Tube-Suction Line Heat Exchangers |
| Pathak, Anchalika | 2013 | MSME | Groll, E. | Non-thesis: Design and Construction of an Organic Rankine Cycle Test Stand |
| Patil, Akash | 2018 | MSME | Braun, J. | Development and Evaluation of Automated Virtual Refrigerant Charge Sensor Training Kit |
| Paul, Alfred S.<br>HL 71-16 | 1971 | MSME | Hillberry, B.S. | Study of the Resonant-Beam Machine Used to Determine the Dynamic Properties of Rubber Products |
| Payne, Joseph G.<br>HL 67-32 | 1967 | Ph.D. | Cohen, R. | Photoelastic Stress Analysis and Dynamic Simulation of Compressor Ring Valves |
| Peng, Yuan<br>HL 2014-10 | 2014 | MSME | Li, K.M. | Propogation of Wind Turbine Noise Through Wakes and Turbulent Atmosphere |
| Perez, Ronald A. | 1986 | MSME | Shoureshi, R. | Non-thesis. Research Study on Active Adaptive Noise Cancellation in Ducts |
| Peters, Jeffrey T. | 2008 | MSME | Mongeau, L./Ivantysnova, M | Non-thesis. Noise Control in Hydraulic Systems |

| NAME | YEAR | DEGREE | PROFESSOR(S) | TITLE |
|---|---|---|---|---|
| Pidaparti, Ramana M.V.<br>HL 89-22 | 1989 | Ph.D. | Yang, H.T./<br>Soedel, W. | Modeling and Fracture Prediction in Rubber Composites |
| Piedmonte, Michael D.<br>HL 95-11 | 1995 | MSME | Meckl, P.H. | Discrete Multivariable Vibration Control of a Flexible Beam Using Model Reference QFT |
| Pietrzak, Bradley | 2014 | MSME | Shaver, G. | Algorithm Development and Analysis for Advanced Engine Technologies Inlcuding Piezoelectric Fuel Injection and Variable Valve Actuation |
| Pitla, Srinivas S.<br>HL99-10 | 1999 | MSME | Ramadhyani, S./<br>Groll E. | Heat Transfer From In-Tube Cooling of Supercritical Carbon Dioxide |
| Pizzo, Alaina<br>HL 2000-20 | 2000 | MSME | Franchek, M. | Multivariable Modeling and Robust Control Technology |
| Poland, Joseph<br>HL 2011-2 | 2011 | MSME | Groll, E. | Energy and Performance of Secondary Coolant Low-Temperature Refrigeration Systems |
| Pollak, Eytan<br>HL 78-43 | 1978 | Ph.D. | Soedel, W. | Performance Study of Oscillating Electrodynamic Compressors |
| Ponnambalam, Tharanivel V. | 2003 | MSME | Mongeau, L. | Numerical Investigation of Heat Transfer and Streaming Due to High Amplitude Standing Waves in Cylindrical Tubes |
| Potter, Patrick<br>HL97-24 | 1997 | MSME | Starkey, J. | The Effects of Suspension Turning on the Limit Handling Behavior of High Performance Vehicles |
| Pottinger, Marion G.<br>HL 63-14 | 1963 | MSME | Cohen, R. | Pressure Oscillations in the Exhaust Chamber of a Refrigeration Compressor |
| Pottinger, Marion G.<br>HL 66-32 | 1966 | Ph.D. | Cohen, R. | An Approach Using Photostress to the Plane Stress Problem of the Narrow Faced Spur Gear Tooth |
| Powder, Donald P.<br>HL 79-9 | 1979 | MSME | Soedel, W. | Measurements and Interpretation of the Vibrations of a Spring Supported Compressor |
| Powell, C. Kendrick<br>HL 61-9 | 1961 | MSME | Chaddock, J.B. | Condensation Inside a Horizontal Tube with High Vapor Velocity |
| Powell, C. Kendrick<br>HL 63-21 | 1963 | Ph.D. | Chaddock, J.B. | The Motion of Algae in Turbulent Flow |
| Prasad, Marehalli G.<br>HL 80-27 | 1980 | Ph.D. | Crocker, M.J. | Acoustical Modeling of Automotive Exhaust Systems |
| Price, Stephen M.<br>HL 85-18 | 1985 | MSME | Bernhard, R.J. | Identification of High Frequency Noise Paths and Noise Mechanisms in Reciprocating Hermetic Compressors |
| Priebe, Michael | 1993 | MSME | Shoureshi, R. | Non-thesis.  Research Study of Adaptive Control of Electro-Hydraulic Actuators |
| Prewett, Emily | 2008 | MSME | Adams, D.E. | Non-thesis: Modeling and Identification of Damage in Composite Materials |
| Puri, Tarun | 2004 | MSME | Davies, P. | Integration of Polyurethane Foam and Seat-Occupant |

| NAME | YEAR | DEGREE | PROFESSOR(S) | TITLE |
|------|------|--------|--------------|-------|
| HL 2004-20 | | | | Models to Predict the Settling Point of a Seat Occupant |
| Quock, Matthew | 2014 | MSME | Groll, E. | Non-thesis: Heat Exchanger Performance Optimization |
| Rahmani, Karim<br>HL 92-5 | 1992 | Ph.D. | Shoureshi, R. | Development and Implementation of a Fuzzy Optimal Expert Controller for Intelligent Buildings |
| Rai, Aakash | 2014 | Ph.D. | Chen, Y. | Ozone-Initiated Chemistry in Indoor Environment |
| Railkar, Nishigandha | 2013 | MSME | Shaver, G. | Investigation of Operating Range Capability of Gasoline Fueled Compression Ignition |
| Ramamurthy, Sundar | 1999 | MSME | Sadeghi, F./<br>Krousgrill, C. | Noise and Vibration in Rolling Bearing Systems Lubricated with Grease |
| Raman, Arvind<br>HL 93-25 | 1993 | MSME | Bajaj, A.K. | A Study of the Response of Nonlinear Systems to Nonstationary Excitations |
| Ramaraj, Sugirdhalakshmi (Sugi)<br>HL 2012-8 | 2012 | MSME | Groll, E. | Vapor Compression Cycle Enhancements for Cold Climate Heat Pumps |
| Ramesh, Aswin | 2018 | Ph.D. | Shaver, G. | Utilization of Variable Valve Actuation to Improve Fuel Efficiency and Aftertreatment Thermal Management in Diesel Engines |
| Ramsey, James R. | 1966 | MSME | Chaddock, J.B. | Non-thesis.  Research Study of Solenoid Valves |
| Rauen, David G. | 1978 | MSME | Soedel, W. | Non-thesis.  Research Study of an Underwater Breathing System |
| Reams, L.A.<br>HL 64-5 | 1964 | MSME | Chaddock, J.B. | Heat Transfer to an Air Stream from an Airfoil Shaped Centrifugal Blower Blade |
| Reddy, Kundur H.<br>HL 74-33 | 1974 | Ph.D. | Hamilton, J.F./<br>Soedel, W. | Computer Simulation of a Reciprocating Compressor with Special Emphasis on the Prediction of Dynamic Strain in Ring Type Valves |
| Reddy, Lalitya | 2015 | MSME | Tzempelikos, T. | Non-thesis: Visual Comfort Studies in Open Plan Offices |
| Reed, William F.<br>HL 77-37 | 1977 | MSME | Hamilton, J.F. | Internal Leakage Effects in Sliding Vane, Rotary Compressors |
| Reedy, John T.<br>HL 2001-13 | 2001 | MSME | Chiu, G./ Yao, B. | Design and Control of High Performance Electrohydraulic Systems |
| Reinhart, Thomas E.<br>HL 80-39 | 1980 | MSME | Crocker, M.J. | Noise Source Identification of Diesel Engines Using Acoustic Intensity Measurements |
| Reynolds, Douglas D.<br>HL 69-28 | 1969 | MSME | Soedel, W. | Power Requirements for Chain Saw Engines |
| Reynolds, Douglas D.<br>HL 71-28 | 1972 | Ph.D. | Soedel, W. | Vibration Interaction of the Human Hand Arm System with Vibrating Power Tools |
| Rice, Stephen H. | 1991 | MSME | Goldschmidt, | Evaluation of an Alternative Refrigerant |

| NAME | YEAR | DEGREE | PROFESSOR(S) | TITLE |
|---|---|---|---|---|
| HL 91-5 | | | V.W./ Tree, D.R. | |
| Righetti, Nicholas | 2015 | MSME | Groll, E. | Non-thesis: Thermally Integrated Appliances: Free Standing Range Induction Double Oven |
| Riley, John F.<br>HL 74-29 | 1974 | MSE | Goldschmidt, V.W. | A Transfer Function and Experimental Analysis of Feedback Excited Oscillations in Gas Flames |
| Riley, Vincent J.<br>HL 63-15 | 1963 | MSME | Witzell, O.W. | The Viscosity of Liquid "Freon-11" and "Freon-22" at Temperatures to 110 C |
| Ro, Hee Seung<br>HL 89-36 | 1989 | Ph.D. | Soedel, W. | Modeling and Interpretation of Fatigue Failure Initiation in Rubber Related to Pneumatic Tires |
| Robbins, Tyler | 2011 | MSME | Adams, D.E. | Development and Verification of Data Analysis Strategies for Characterizing Miltary Helmet-Head Performance |
| Roberts, Leighton | 2014 | MSME | Shaver, G. | Analysis of the Impact of Early Exhaust Valve Opening and Cylinder Deactivation on Aftertreatment Thermal Management and Efficiency for Compression Ignition Engines |
| Robinson, Charles J.<br>HL 60-4 | 1960 | MSME | Fontaine, W.E. | Measurement of Natural Convection Heat Transfer Coefficients for a Finned Tube Heat Exchanger |
| Robinson, Daniel | 2007 | MSME | Bernhard, R.J. | Effect of Low Frequency Sound on Resonant Sound Insulation and Rattle Systems |
| Robinson, Douglas M.<br>HL2000-7 | 2000 | Ph.D. | Groll, E.A. | Modeling of Carbon Dioxide Based Air-to-Air Conditioners |
| Rodda, Don E.<br>HL 74-22 | 1974 | MSME | Leidenfrost, W. | A Rotating Heat Exchanger for a Household Refrigerator |
| Roecker, Ryan | 2001 | MSME | Franchek, M. | Non-thesis.  Engine Diagnostics |
| Rogers, C. Shawn<br>HL 90-27 | 1990 | MS | Tree, D.R. | Algebraic Modeling of Components and Computer Simulation of Refrigerator Steady-State Operation |
| Roggenkamp, Timothy J.<br>HL 92-15 | 1992 | Ph.D. | Bernhard, R.J. | An Investigation of the Indirect Measurement of Broadband Force Spectra |
| Rooke, Steven P.<br>HL 92-12 | 1992 | Ph.D. | Goldschmidt, V.W. | Study of Heat Pump Operating Parameters Related to Controls and Performance Including Variable Speed and Transient Effects |
| Roschke, E. John<br>HL 59-3 | 1959 | Ph.D. | Binder, R.C. | Periodic Flux Flow in Rigid and Flexible Bodies |
| Ross, David F.<br>HL 76-28 | 1976 | Ph.D. | Crocker, M.J. | An Experimental Investigation of the Normal Specific Acoustic Impedance of an Internal Combustion Engine |
| Ross, Phillip T.<br>HL 62-15 | 1962 | MSME | Chaddock, J.B. | A Study of the Effect of Clearance Volume on the Pumping Capacity and Efficiency of a Heat Pump Water |

| NAME | YEAR | DEGREE | PROFESSOR(S) | TITLE |
|------|------|--------|--------------|-------|
| | | | | Heater Compressor |
| Rossi, Todd M.<br>HL 95-13 | 1995 | Ph.D. | Braun, J.E. | Detection, Diagnosis, and Evaluation of Faults in Vapor Compression Cycle Equipment |
| Roys, Byron<br>HL 86-16 | 1986 | MSME | Soedel, W. | On the Acoustics of Shell Enclosed Compressors with Special Attention to Gas Pulsations on the Suction Side |
| Rudy, William J.<br>HL 56-1 | 1956 | MSME | Fontaine, W.E. | A Study of Wire and Tube Heat Exchangers |
| Ruhno, Amanda | 2013 | MSME | Groll, E. | Non-thesis: Minerva Built in Cavity Heat Distribution Analysis Model |
| Ruhnow, Russell F.<br>HL 79-36 | 1979 | MSME | Tree, D.R. | Lawn Mower Deck Performance Study:  Blade Noise |
| Ruikar, Neha<br>HL 2012-10 | 2012 | MSME | Shaver, G. | FPGA Model Based Within-aCycle Estimation of Rate Shaping for a Piezoelectric Fuel Injector |
| Rusnock, Paul<br>HL 83-12 | 1983 | MSME | Cipra, R.J. | Automatic Mesh Generation for Planar Surfaces and Finite Element Analysis |
| Rutterman, Daniel J.<br>HL 93-1 | 1993 | MSME | Meckl, P. | Experiments on Active Vibration Control of Coupled Flexible Structures |
| Ryan, James R.<br>HL 77-36 | 1977 | MSME | Sullivan, J.W. | Design and Development of an Indoor Simulation of the SAE J366b Measurement of Exterior Truck Noise |
| Ryan, Matthew W.<br>HL 94-17 | 1994 | MSME | Franchek, M. | Adaptive Passive Vibration Control |
| Sadeghi, Seyed Amir | 2018 | Ph.D. | Karava, P. | Visual Preferences and Human Interactions with Shading and Electric Lighting Systems |
| Sakamoto, Nicholas<br>HL 2014-3 | 2014 | MSME | Bolton, J.S. | The Prediction of Airborne and Structure-Borne Noise Potential for a Tire |
| Saljnikov, Aleksander V.<br>HL 82-8 | 1982 | MSME | Tree, D.R. | Experimental Analysis of Some of the DOE Test Procedure Set-Up Measurement Errors for Unitary Air Conditioners and Heat Pumps |
| Salunke, Akhil | 2013 | MSME | Rhoads, J. | Control of Impacting Dynamical Systems |
| Sanchez-Flores, Cesar A.<br>HL 75-25 | 1975 | MSME | Goldschmidt, V.W. | The Measurement and Modeling of Heat Gains and Losses in a Mobile Home |
| Sandgren, Eric<br>HL 75-4 | 1975 | MSME | Ragsdell, K./<br>Soedel, W. | Computer Simulation of a Two-Cylinder Reciprocating Compressor and Associated Discharge System Using Acoustical Impedances |
| Santiago, Teresa<br>HL 93-15 | 1993 | MSME | Bernhard, R.J. | Active Control of the Directivity of a Noise Source |
| Sasidharan, Premjee<br>HL 2008 1 | 2008 | MSME | Meckl, P. | Development of an Electronic Fuel Injection System for a Small Electric Power Unit |

| NAME | YEAR | DEGREE | PROFESSOR(S) | TITLE |
|------|------|--------|--------------|-------|
| Sathe, Abhijit | 2008 | Ph.D. | Groll, E.A. | Miniature-Scale Diaphragm Compressor for Electronics Cooling |
| Satkoski, Chris A. HL 2010-12 | 2010 | MSME | Shaver, G. | Modeling, Estimation, and Control of a Piezoelectric Actuated Fuel Injector |
| Scharf, Roland R. HL 83-8 | 1983 | MSME | Goldschmidt, V.W. | Reversing Valve Flow Leakage Measurement and Analysis Performance |
| Scheper, Christine M. HL 91-10 | 1991 | MSME | Bernhard, R.J. | An Investigation of the Behavior of Adaptive Recursive Algorithms Applied to the Control of Modal Systems |
| Schneemann, Jason | 2015 | MSME | Groll, E. | Non-thesis: Sustainable Water Systems at the ReNEWW (Retrofitted Net-Zero Energy, Water and Waste) House |
| Schult, Thomas H. HL 66-27 | 1966 | MSME | Chaddock, J.B. | Free Convection Heat Transfer from Vertical Rectangular Fin Arrays |
| Schult, Thomas H. HL 70-30 | 1970 | MSME | Cohen, R. | Performance Optimization of a 1/3 Horsepower Rotary-Vane Compressor Using a Computer Simulation |
| Schultz, Ryan A. | 2012 | MSME | Bolton, J.S. | Effect of Solid Phase Properties on the Acoustical Performance of Poroelastic Materials |
| Schultz, Ryan E. HL 2010-10 | 2010 | MSME | Meckl, P.H. | Light-Off Temperatrue Shift as a Detection Method of Catalyzed Diesel Particulate Filter Nonmethane Hydrocarbon Oxidation Efficiency Degradation |
| Schultz, William W. HL 77-50 | 1977 | MSME | Goldschmidt, V.W. | Efficiencies of Electric Service Water Heating Systems: Measurements and Modeling |
| Schwerzler, Dennis D. | 1968 | MSME | Hamilton, J.F. | Non-thesis.  Research Study of Self-Actuated Compressor Valves |
| Schwerzler, Dennis D. HL 71-6 | 1971 | Ph.D. | Hamilton, J.F. | Mathematical Modeling of a Multiple Cylinder Refrigeration Compressor |
| Scott, Wesley D. HL 92-34 | 1992 | MSE | Tree, D.R. | Experimental Simulation of Refrigerator Steady-State Operation Using Alternative Cycles and Alternative Refrigerants |
| Seidel, Detlev K. HL 88-21 | 1988 | MS | Davies, P. | Time Series Modeling of Non-Linear Systems |
| Seidel, Manfred HL 85-10 | 1985 | MSME | Bernhard, R.J. | Transient Vibrations of Compressor Discharge Tubes |
| Servis, Brian K. HL2000-2P | 2000 | Ph.D. | Krousgrill, C./ Davies, P./ Bajaj, A. | The Onset of Squeal Vibrations Resulting from a Coupled Mode Instability |
| Seybert, Andrew F. HL 71-27 | 1972 | MSME | Crocker, M.J. | Noise Reduction of a Residential Air Conditioner |
| Seybert, Andrew F. HL 76-3 | 1975 | Ph.D. | Crocker, M.J. | Estimation of Frequency Response in Acoustical Systems with Particular Application to Diesel Engine Noise |

| NAME | YEAR | DEGREE | PROFESSOR(S) | TITLE |
|------|------|--------|--------------|-------|
| Shah, Chintan<br>HL 2008-9 | 2009 | MSME | Meckl, P. | Particulate Matter Load Estimation in Diesel Particulate Filters |
| Shaffer, Bradley W.<br>HL 77-3 | 1977 | MSME | Leonard, R.G. | Refrigerant Flow Control Using a No-Moving-Parts Fluidic Device |
| Shaffer, Bryce | 2012 | Ph.D. | Groll, E. | Performance Analysis of Non-Metallic Dry Running Scroll Compressors |
| Shah, Chintan<br>HL 2008-9 | 2008 | MSME | Meckl, P. | Particulate Matter Load Estimation in Diesel Particulate Filters |
| Shah, Minesh A. | 1998 | Ph.D. | Franchek, M. | Steady State Adaptive Fueling Control of Internal Combustion Engines |
| Shahin, Ali R.<br>HL 95-17 | 1995 | Ph.D. | Jones, J.D./<br>Meckl, P.H. | Modeling and Control of Shape Memory Alloy Actuators to Reduce Vibration in a Building Model |
| Shashaani, Reza<br>HL 75-43 | 1975 | Ph.D. | Vaidya, P.G. | Propagation of Supersonic Rotor Sound Radiation in Jet Engine Inlet Ducts |
| Shen, Bo<br>HL 2006-1 | 2006 | Ph.D. | Groll, E.A./Braun, J.E. | Improvement and Validation of Unitary Air Conditioner and Heat Pump Simulation Models at Off-Design Conditions |
| Shen, Jin<br>Hl 2012-11 | 2012 | MSME | Shaver, G. | Within-A-Cycle Flow Rate Estimation for Piezoelectric Fuel Injection |
| Shi, Tongyang | 2015 | MSME | Bolton, J.S. | Non-thesis: Equivalent Source Methods for Noise Source Visualization |
| Shi, Zhu | 2015 | MSME | Chen, J. And Chen, Y. | Numerical Simulation and Characterization of Jet Flows in Indoor Environments |
| Shiau, Nae-Ming<br>HL 91-3 | 1991 | Ph.D. | Bolton, J.S. | Multi-Dimensional Wave Propagation in Elastic Porous Materials with Applications to Sound Absorption, Transmission and Impedance Measurement |
| Shih, Hsin-Chien | 2010 | MSME | Yao, B. | Non-Thesis: Modeling and Control of an Electro-Hydraulic Arm |
| Shin, Hyun Jun | 2011 | MSME | Bolton, J.S. | The Use of Microperforated Materials as Duct Liners |
| Shin, Yoon-Shik | 2010 | Ph.D. | Bolton, J.S. | Numerical and Experimental Investigation of Noise from Small Scale Axial Fans Focusing on Inflow Condition and Acoustic Source Type |
| Shinde, Ninad | 2001 | MSME | Chiu, G. | Feasibility Study for the Design and Fabrication of a Mesoscale Pulse Tube Refrigerator |
| Shirsikar, Sai<br>HL2013-5 | 2013 | MSME | Meckl, P. | Estimation of Fueling Variation in Multipulse Injection |
| Shryock, Ronald A.<br>HL 73-22 | 1973 | MSME | Tree, D.R. | Acoustic Investigation of a Small Rotary Vane Compressor |
| Siegla, Donald C.<br>HL 61-11 | 1961 | MSME | Chaddock, J.B. | Two-Phase Flow as Related to Condensation Processes |

| NAME | YEAR | DEGREE | PROFESSOR(S) | TITLE |
|---|---|---|---|---|
| Siegla, Donald C.<br>HL 63-11 | 1963 | Ph.D. | Chaddock, J.B. | Temperature Distribution and Heat Losses Within a Thermoelectric Module |
| Silverstein, Brian R. | 1995 | Ph.D. | Davies, P. | Monitoring of Valve Condition in Reciprocating Pumps by Analysis of Vibration Signatures |
| Simpson, Jr., F. M.<br>HL 63-20 | 1963 | MSME | Chaddock, J.B. | Heat Transfer to an Air Stream in a Rotating, Hollow, Airfoil Shaped Blade |
| Singh, Rajendra<br>HL 75-31 | 1975 | Ph.D. | Soedel, W. | Modeling of Multicylinder Compressor Discharge Systems |
| Singh, Rajiv<br>HL 2000-18 | 2000 | MSME | Davies, P./ Bajaj, A. | Dynamic Modeling of Polyurethane Foam and Development of System Identification Methodologies |
| Sinha, Arvind K.<br>HL 92-33 | 1992 | Ph.D. | Kokini, K. | Transient Thermal Fatigue of Ceramic Composites |
| Skok, Holger<br>HL 88-32 | 1988 | MSME | Ramadhyani, S./ Schoenhals, R.J. | Buoyancy Driven Flow and Heat Transfer in a Side-Facing Open Cavity with Application to Heat Transfer in a Household Refrigerator |
| Skowron, Erick B.<br>HL98-20P | 1998 | MSME | Goldschmidt, V.W./ Groll, E.A. | Investigation of Refrigerant/Oil Flow Through Suction Accumulators |
| Small, Sarah | 2017 | MSME | Groll, E. | Non-thesis: Thermally Integrated Residential Appliance |
| Smith, Clarence C.<br>HL 88-27 | 1988 | MSME | Kokini, K. | Transient Thermal Fracture of Bonded Dissimilar Materials |
| Smith, David C.<br>HL 88-26 | 1988 | MSME | Bernhard, R.J. | Noise Control Design of Vibrating Structures Using the Direct Boundary Element Method |
| Smith, David L. | 1970 | MSME | Hamilton, J.F. | Non-thesis. Research Study on Damping Characteristics of Vibration Coatings |
| Smith, Lane R. | 1998 | MSME | Franchek, M.A. | Nonlinear Modeling and Robust Control of a Single Cylinder I.C. Engine for Hybrid Vehicle Applications |
| Snyder, David B. | 2009 | MS | Shaver, G. | Non-Thesis: Model-Based Biodiesel Blend Estimation in Diesel Engines |
| Snyder, David B.<br>HL 2010-5 | 2010 | Ph.D. | Shaver, G. | Soy-Based Biodiesel Blend Estimation and Accommodation in a Modern Diesel Engine |
| Soedel, Werner<br>HL 67-31 | 1967 | Ph.D. | Cohen, R. | Development of Methods for the Analytical and Experimental Investigation of the Large Axisymmetrical Deflection of Shallow Thin Shells of Revolution |
| Sobecki, Brandon<br>HL 2014-7 | 2014 | MSME | Davies, P. | Development of Sound quality Metrics for Gear Rattle in Diesel Engines |
| Sohaney, Richard C.<br>HL 80-10 | 1980 | MSME | Sullivan, J.W. | Analytical and Experimental Model to Predict Valve Train Vibrations in Internal Combustion Engines |
| Song, Bryan (H.J.) | 2001 | Ph.D. | Bolton, J.S. | Measurement and Enhancement of Acoustical Properties |

| NAME | YEAR | DEGREE | PROFESSOR(S) | TITLE |
|------|------|--------|--------------|-------|
| HL 2001-15 | | | | of Porous Materials |
| Song, Heuk-Jin (Bryan) | 1997 | MSME | Soedel, W. | Investigation of Liquid Hammer By Modal Analysis |
| Song, Jinho<br>HL 2003-26 | 2003 | Ph.D. | Bolton, J.S. | Nonfibrous Sound Absorbing Materials |
| Song, Yuanpei | 2013 | MSME | Braun, J./Groll, E. | Modeling and Expereimental Validation of a Multi-Port Vapor Injected Scroll Compressor |
| Sonti, Venkata R.<br>HL 94-5 | 1994 | Ph.D. | Jones, J.D. | Analysis of Flat and Curved Piezo-Actuators for Vibration Control of Cylindrical Shells |
| Speer, Edward D.<br>HL 86-33 | 1986 | MSME | Tree, D.R. | Modeling and Experimental Verification of Commercial Steam Cooking Kettles |
| Spencer, Mychal<br>HL 2007-5 | 2007 | MSME | Mongeau, L. | Indirect Determination of the Strain and Stress in Physical Models of the Vocal Folds Using Digital Image Correlation |
| Spicer, Tom | 2013 | MSME | Groll, E. | Non-thesis: Centripetal Moisture Extraction in a Vertical Axis Washing Machine |
| Srikanth, Ramanujam<br>HL 87-17 | 1987 | MSME | Thompson, H.D. | How the Design of the Suction Return Affects Compressor Efficiency |
| St. Onge, Jeffrey D.<br>HL 93-10 | 1993 | MSME | Goldschmidt, V.W./ Jones, J.D. | Evaluation, Prototyping, and Modeling of Multiplex Heat Pump Systems |
| Stallard, Laura<br>HL 89-25 | 1989 | MSME | Shoureshi, R. | Model Based Expert Systems for Failure Detection and Identification of Household Refrigerators |
| Stein, R.J.<br>HL 57-4 | 1957 | MSME | Fontaine, W.E./ Witzell, O.W. | The Removal of Ice from Metal Surfaces |
| Steinke, Roland<br>HL 78-53 | 1978 | MSME | Hawks, K.W. | A Study of Variable Chilled Water Supply Temperatures for the Purdue Chilled Water System |
| Steinke, Sabine<br>HL 77-43 | 1977 | MSME | Tree, D.R. | Compressor Noise Study of a 1.75 Horsepower Hermetically Sealed Reciprocating Compressor |
| Stell, James D.<br>HL 91-23 | 1991 | Ph.D. | Bernhard, R.J. | Active Noise Control in Finite Length Waveguides |
| Stene, John K.<br>HL 60-6 | 1960 | Ph.D. | Fontaine, W.E. | A Discussion of Some Strength Characteristics of Ice at the Interface |
| Stenger, James B.<br>HL 76-11 | 1976 | MSME | Pearson, J.T. | Improving Temperature Control System Dynamics |
| Stevenson, Martin J.<br>HL 69-45 | 1969 | MSME | Qvale, B. | A Computer Simulation of a Rotary Vane Compressor |
| Stevenson, Martin J.<br>HL 72-37 | 1972 | Ph.D. | Tree, D.R. | An Experimental and Theoretical Investigation Technique for a Linearly Oscillating Electromagnetic Pump |
| Stricker, Karla<br>HL 2012-3 | 2012 | Ph.D. | Shaver, G. | Turbocharger Map Reduction and Estimation of Effective Compression Ratio in a Modern Diesel Engine Utilizing Flexible Intake Valve Actuation |

| NAME | YEAR | DEGREE | PROFESSOR(S) | TITLE |
|---|---|---|---|---|
| Stiller, Paul H.<br>HL 78-35 | 1978 | MSME | Hawks, K.H. | Utility Data Logging Systems for Department of Physical Plant, Purdue University |
| Stites, Nick<br>HL 2007-3 | 2007 | MSME | Adams, D.E. | Minimal-Sensing, Passive and Semi-Active Load and Damage Identification Techniques for Structural Components |
| Stoecker, W.F.<br>HL 62-13 | 1962 | Ph.D. | Chaddock, J.B. | Transient Behavior of Thermo-electric Refrigerators Under Step Changes in Current |
| Strader, Dennis L.<br>HL 77-2 | 1976 | MSME | Soedel, W. | Computer Simulations of the Dynamics of Refrigeration Cycles |
| Stricker, Karla<br>HL 2012-3 | 2012 | Ph.D. | Shaver, G. | Turbocharger Map Reduction and Estimation of Effective Compression Ratio in a Modern Diesel Engine Utilizing Flexible Intake Valve Actuation |
| Stroh, David J.<br>HL2000-11 | 2000 | MSME | Franchek, M. | Transient and Steady-State Adaptive Fueling Control of Internal Combustion Engines |
| Stuart, Nicholas (Nico) | 2014 | MSME | Groll, E. | Non-thesis: Heat Exchanger Performance Optimization |
| Stutts, Daniel S.<br>HL 90-31 | 1990 | Ph.D. | Soedel, W. | A Study of Horizontal and Vertical Forces Generated by Rolling Tires |
| Suh, Sanghoon<br>HL 2003-16 | 2003 | Ph.D. | Mongeau, L./<br>Bolton, J.S. | Comparison of the Performance of Absorbing and Rigid-Edged Barriers by Using Experimental and Numerical Methods |
| Sullivan, Joseph W.<br>HL 74-53 | 1974 | Ph.D. | Crocker, M.J. | Theory and Methods for Modeling Acoustically-Long, Unpartitioned Cavity Resonators for Engine Exhaust Systems |
| Sun, Hong<br>HL 2001-11P | 2001 | Ph.D. | Chiu, G. | Motion Synchronization of Multi-Cylinder Electro-Hydraulic Lift Systems |
| Sun, Zeqiang<br>HL 2001-8 | 2001 | MSME | Groll, E.A. | $CO_2$ Flow Boiling Heat Transfer in Horizontal Tubes |
| Sundaram, Vaidyanadan | 2014 | MSME | Davies, P. &<br>Bolton, J.S. | Measurement of the Responses of Polyurethane and Confor$^{TM}$ Foams and the Development of a System Identification Technique to Estimate Polyurethane Foam Parameters from Experimental Impulse Responses |
| Sundararaman, Shankar<br>HL 2003-8 | 2003 | MSME | Adams, D.E. | Structural Diagnostics Through Beamforming of Phased Arrays: Characterizing Damage in Steel and Composite Plates |
| Sundararaman, Shankar<br>HL 2007-6 | 2007 | Ph.D. | Adams, D.E. | Numerical and Experimental Investigations of Practical Issues in the Use of Wave Propagation for Damage Identification |
| Surella, Matthew M.<br>HL 93-9 | 1993 | MSME | Krousgrill, C.M. | The Effects of Clearance Gaps on Torsional Drivetrain Dynamics |

| NAME | YEAR | DEGREE | PROFESSOR(S) | TITLE |
|------|------|--------|--------------|-------|
| Surve, Pranati<br>HL 2008-5 | 2008 | MSECE | Meckl, P. | Diesel Particulate Filter Diagnostics Using Correlation and Spectral Analysis |
| Sutjiono, Raymond<br>HL 2013-3 P | 2013 | MSME | Meckl, P. | Real-Time On-Board Indirect Light-Off Temperature Estimation as a Detection Technique of Diesel Oxidation Catalyst Effectiveness Level |
| Suzuki, Wayne T.<br>HL 69-46 | 1969 | MS | Chanaud, R.C. | Noise Reduction of a Household Refrigerator |
| Swift, S. Hales | 2009 | MSME | Davies, P. | Non-Thesis: Potential Health Effects of Aircraft Noise |
| Sydney, Craig A.<br>HL 76-30 | 1976 | MSME | Leonard, R.G. | Dynamic Temperature Response of Rabbits to Thermoneutral and Hyperthermic Temperatures |
| Takeuchi, Yoshimi R.<br>HL 91-13 | 1991 | MSME | Kokini, K. | Thermal Fracture of Ceramic Thermal Barrier Coatings |
| Takeuchi, Yoshimi R.<br>HL 97-10 | 1997 | Ph.D. | Kokini, K. | Multiple Surface Fracture of Ceramic Thermal Barrier Coatings Under Transient Thermal Loads |
| Tao, Hongcheng | 2017 | MSME | Gibert, J. | Non-thesis: Dynamic Behavior of Discontinuous Metamaterial Unit Cells |
| Tao, Hongdan<br>HL2013-7 | 2013 | Ph.D. | Li, K.M. | Propagation of Sound in the Vicinity of Rigid Porous Interfaces |
| Tarplee, Jennifer L.<br>HL 94-12 | 1994 | MSME | Goldschmidt, V.W. | Study of Refrigerant Charge Effects in a Prototype Multiplex Heat Pump |
| Tarson, S.<br>HL 49-1 | 1949 | | Fontaine, W.E. | Short Time Stress Rupture Characteristics of Various Steels in a High Temperature Steam Atmosphere |
| Tayal, Prateek | 2014 | MSME | Meckl, P. | Light Off Temperature Based Approach to Determine Diesel Oxidation Catalyst Effectivesness Level and the Corresponding Outlet NO and $NO_2$ Characteristics |
| Taylor, Alex | 2016 | MSME | Shaver, G. | Modelling and Control of a Parallel Through-the-Road Plug-In Hybrid Vehicle |
| Temple, Keith A.<br>HL 96-7 | 1996 | Ph.D. | Goldschmidt, V.W. | Thermal and Internal Acoustic Model of a Helmholtz Type Pulse Combustion Furnace |
| Thomas, Flint O.<br>HL 80-32 | 1980 | MS | Goldschmidt, V.W. | Effect of Nozzle Geometry on Acoustic Interaction with a Turbulent Plane Jet |
| Thomas, Flint O.<br>HL 83-37 | 1983 | Ph.D. | Goldschmidt, V.W. | Development of a Two-Dimensional Turbulent Jet Under Natural and Excited Conditions |
| Thomas, Josiah | 2016 | MSME | Chiu, G. | Non-thesis: High Speed 1 Bit Feedback Control |
| Thomas, Steven B.<br>HL 80-15 | 1980 | MS | Tree, D.R./<br>Goldschmidt, V.W. | A Study of the Test Method for Prediction of Air Conditioning Equipment Seasonal Performance |
| Thompson, James A.<br>HL 94-1 | 1994 | MSME | Starkey, J.M. | The Development of an Experimental Test Stand to Measure the Stiffness Characteristics and Dynamic |

| NAME | YEAR | DEGREE | PROFESSOR(S) | TITLE |
|------|------|--------|--------------|-------|
| | | | | Response of a Driveline System |
| Thompson, James K.<br>HL 79-39 | 1979 | Ph.D. | Tree, D.R. | Evaluation of the Conventional and Acoustic Intensity Methods of Noise Source Identification for Small Internal Combustion Engines |
| Thomson, Scott<br>HL 2004-9 | 2004 | Ph.D. | Mongeau, L./Frankel, S. | Fluid Structure Interactions Within the Human Larynx |
| Thornton, William | 2004 | MSME | Bernhard, R. | Non Thesis:  Tire/Pavement Interaction Noise |
| Thornton, William R.<br>HL 70-13 | 1970 | MSME | Chanaud, R.C./Crocker, M.J. | Pressure Cross-Correlation of White Noise and Turbulence in a Cylindrical Duct |
| Thornton, William R.<br>HL 72-27 | 1972 | Ph.D. | Hamilton, J.F. | Noise Identification and Reduction for a Rotary Vane Compressor |
| Thorpe, Sonya<br>HL 2002-5 | 2002 | MSME | Bernhard, R.J. | Non-thesis.  Waveguide Models of the Vibration of Toroids; Waveguide Models of the Vibration of Cylinders |
| Thrasher, Mark A.<br>HL 91-17 | 1991 | MSME | Jones, J.D. | A Fundamental Characterization of Shape Memory Alloy Actuators for Use in Hand Protheses |
| Tibbles, Tom T.<br>HL 76-26 | 1976 | MSE | Hawks, K.H. | Economy Loading of Chillers in the Purdue Air Conditioning System |
| Tom, Steve T.<br>HL 84-10 | 1984 | Ph.D. | Hawks, K.H. | Demand Controlled Economizer Cycles:  A Direct Digital Control Scheme for HVAC Systems |
| Tong, Bao N.<br>HL 2010-11 | 2010 | MSME | Li, K.M. | Sound Field of a High Speed Airborne Source in a Horizontally Stratified Fluid Medium Above an Impedance Plane |
| Tong, Bao N.<br>HL 2015-4 (pdf only) | 2015 | Ph.D. | Li, K.M. | Prediction and Reduction of Aircraft Noise in Outdoor Environments |
| Torcellini, Paul A.<br>HL 92-6 | 1992 | Ph.D. | Shoureshi, R. | Supervisory Control for Intelligent Building Systems |
| Totsuka, Kenji | 2005 | MSME | Chiu, G.T.-C. | Tone Curve Stabilization for Color Electrophotography |
| Towers, David A.<br>HL 73-24 | 1973 | MSME | Tree, D.R. | The Reduction of Diesel Engine Noise of Commercial Vehicles by Acoustic Enclosure |
| Trella, Tom J.<br>HL 72-2 | 1972 | Ph.D. | Soedel, W. | Computer Simulation of the Vibratory and Acoustic Behavior of a Reciprocating Compressor Discharge Valve |
| Tripathi, Astitva | 2015 | Ph.D. | Bajaj, A. and Rhoads, J. | On Computational Synthesis and Dynamic Analysis of Nonlinear Resonant Systems with Internal Resonances |
| Troxel, Ned | 2011 | MSME | Yao, B. | Precision Motion Control of Electro-Hydraulic Systems with Energy Recovery |
| Trutassanawin, Suwat | 2006 | Ph.D. | Groll, E.A./Garimella, S. | A Miniature Scale Refrigeration System for Electronics Cooling |

| NAME | YEAR | DEGREE | PROFESSOR(S) | TITLE |
|---|---|---|---|---|
| Trutassannawin, Suwat | 2002 | MSME | Groll, E.A. | Non-thesis.  Testing of Transcritical CO2 Breadboard Air Conditioning Systems |
| Tsoi, Wan<br>HL 92-21 | 1992 | MSME | Bolton, J.S. | Acoustical Modeling of Polymide Foams |
| Tsui, Chung Y.<br>HL 59-8 | 1959 | MSME | Wellman, E.J. | Viscosity Measurements for Several Fluorinated Hydrocarbon Vapors at Elevated Temperatures and Pressures |
| Tsui, Chung Y.<br>HL 67-27 | 1967 | Ph.D. | Fontaine, W.E./<br>Cohen, R. | Discharge Phenomena of a Vibrating Poppet Type Valve |
| Tung, Vincent T.C.<br>HL 81-17 | 1981 | MSME | Crocker, M.J. | Combustion Noise of a Diesel Engine |
| Tweed, Lorne W.<br>HL 76-2 | 1976 | MSME | Tree, D.R. | Noise Analysis and Preliminary Design of Acoustic Enclosures for Air Cooled Internal Combustion Engines |
| Tweed, Lorne W.<br>HL 78-3 | 1978 | Ph.D. | Tree, D.R. | The Design of Close-Fitting Acoustical Enclosures |
| Udani, Janav | 2017 | AAEMS | Arrieta, A. | Non-thesis: Dynamics and Control of Bi-Stable Structures |
| Uffman, William P.<br>HL 72-39 | 1972 | MSME | Tree, D.R. | Reduction of Noise in a Canister Vacuum Cleaner |
| Ufford, Donald A.<br>HL 89-38 | 1989 | MSE | Bernhard, R.J. | Development of a Digital Signal Processing Technique to Determine the Number of Incoherent Sources in a System with Application to an Automotive Powertrain |
| Ukrainetz, Paul R.<br>HL 63-7 | 1963 | Ph.D. | Cohen, R. | Compressor Valve Stress Studies in Conjunction with Accelerated Life Tests |
| Ulrich, Richard D.<br>HL 59-7 | 1959 | Ph.D. | Fontaine, W.E. | A Study of Fluid Flow Through Flexible Orifices |
| Underwood, Sara | 2012 | Ph.D. | Adams, D.E. | Subsurface Damage Detection in Sandwich Composites using Three-Dimensional Laser Vibrometry Measurements with Nonlinear Vibration Response Characteristics |
| Unglenieks, Robert J.<br>HL 2000-22 | 2000 | Ph.D. | Bernhard, R.J. | Estimation of Flexural Wave Energy Parameters Using Wavenumber Transform Techniques |
| Upathumchard, Ularee<br>HL 2014-6 | 2014 | MSME | Groll, E. | Waste Heat Recovery Options in a Large Gas-Turbine Combined Power Plant |
| Vagha, Aniket<br>HL2013-8 | 2013 | MSME | Meckl, P. | Strategy for Health Monitoring and Fault Detection in Heavy Duty Diesel Engines |
| Van Alstine, Dan | 2013 | Ph.D. | Shaver, G. | Control-Oriented Modeling and Operating Range Expansion of Premixed Charge Compression-Ignited Combustion in a Multi-Cylinder Diesel Engine with Flexible Valve Actuation and Variable Fuel Reactivity |

| NAME | YEAR | DEGREE | PROFESSOR(S) | TITLE |
|------|------|--------|--------------|-------|
| Van Voorhis, Matt | 2017 | MSME | Shaver, G. | Implementation of Aftertreatment System to Enable Tailpipe Emissions Measurements of a Variable Valve Actuation Enabled Camless Diesel Engine |
| Van Wyk, Kenric D.<br>HL 91-22 | 1991 | MSE | Bolton, J.S. | Models for the Characterization of the Acoustical Properties of Asphalt Surfaces |
| VanDoren, Vance J.<br>HL 90-30 | 1990 | Ph.D. | Shoureshi, R. | The Iterative Least Squares Parameter Estimation Technique for Intermittent Systems with Applications to Intelligent Building Control |
| Varanasi, Srinivas | 2014 | Ph.D. | Bolton, J.S. | Sound Attenuation Characteristics of Cellular Metamaterials |
| Vargo, Matt | 2011 | MSME | Braun, J. | Non-thesis: Compressor Performance Testing |
| Vasudevan, Jebaraj<br>HL 2015-6 (pdf only) | 2015 | MSME | Braun, J., Horton, T., and Groll, E. | Training and Evaluation of Virtual Sensors for Rooftop Units |
| Venkatachalam, Sanjeev | 2016 | MSME | Horton, W.T. | Non-thesis: Modeling of Desiccant Wheel-Based Cooling System |
| Viebrock, Walter M.<br>HL 72-21 | 1972 | MSME | Crocker, M.J. | The Measurement, Loudness, Identification, and Reduction of Noise from Electric Clocks |
| Vigander, Sven<br>HL 59-4 | 1959 | MSME | Binder, R.C. | On the Use of Resonators as an Acoustic Muffler in Fluid Flow Machinery |
| Viswanathan, Arun | 2013 | MSME | Bolton, J.S. | Non-thesis: Study of the Effect of Grazing Flow on the Performance of Microperforated and Perforated Panels |
| Vogt, Scott T.<br>HL 78-56 | 1978 | MSME | Schoenhals, R.J. | Performance Characteristics of a Pulse Combustion Water Heater |
| Vora, Ashish | 2016 | Ph.D. | Shaver, G. | Modeling the Impact of Battery Degradation within Lifecycle Cost Based Design Optimization of Heavy-Duty Hybrid Electric Vehicles |
| Wagner, Caleb | 2015 | MSME | Davies, P. | Non-thesis: Sound Quality of Rotorcraft |
| Wagner, Danielle | 2018 | MSMEEE | Boor, B. | 2 yr. Confidential-Dynamics of Fine and Ultrafine Particulate Matter in Biomass Burning Kitchens in Western Kenya: Field Sampling Methodology and Modeling Framework |
| Wagner, John R.<br>HL 89-11 | 1989 | Ph.D. | Shoureshi, R. | Nonlinear Observer Design and Failure Diagnostics for Thermofluid Systems |
| Wahl, Thomas J.<br>HL 91-11 | 1991 | MSME | Bolton, J.S. | The Prediction and Analysis of Transient Structural Responses |
| Wahlberg, Curtis J. | 1995 | MSME | Goldschmidt, V.W. | A Compressor Performance Evaluation of Hydrocarbon Refrigerants |
| Wakeland, Jack F.<br>HL 88-19 | 1988 | MSME | Tree, D.R. | Evaporator Simulation |

| NAME | YEAR | DEGREE | PROFESSOR(S) | TITLE |
|------|------|--------|--------------|-------|
| Wambsganss, Martin W.<br>HL 66-24 | 1966 | Ph.D. | Cohen, R. | Mathematical Modeling and Design Evaluation of High-Speed Reciprocating Compressors |
| Wang, Bryan | 2012 | MSME | Adams, D. | Kinematic Center of Gravity Estimation Method of Ground Vehicle Based on Dynamic Measurements |
| Wang, Haojie | 2015 | MSME | Chen, Y. | Modeling on Single-Sided Wind Driven Natural Ventilation |
| Wang, Joseph S.<br>HL 74-15 | 1973 | Ph.D. | Crocker, M.J. | Optimization of Design of Sampling Tubes |
| Wang, Kuo-Shon<br>HL 76-37 | 1976 | Ph.D. | Vaidya, P.G. | Propagation of Finite Amplitude Higher Order Mode Sounds in Rigid and Absorbent Ducts with Particular Applications to the Multiple Pure Tone Problem |
| Wang, Liangzhu | 2007 | Ph.D. | Chen, Y. | Coupling of Multizone and CFD Programs for Building Airflow Distribution and Contaminant Transport Simulations |
| Wang, Miao | 2011 | Ph.D. | Chen, Y. | Modeling Airflow and Contaminant Transport in Enclosed Environments with Advanced Models |
| Wang, Mun-En<br>HL 78-19 | 1978 | Ph.D. | Crocker, M.J. | The Application of Coherence Function Techniques for Noise Source Identification |
| Wang, Peishuh –F.<br>HL 95-10 | 1995 | Ph.D. | Davies, P. | Development of Experimental Model Building Techniques |
| Wang, Shuo<br>HL2000-9 | 2000 | Ph.D. | Bernhard, R. | High Frequency Energy Flow Analysis Methods: Numerical Implementation, Applications, and Verification |
| Wang, Xiaoshen | 2015 | MSME | Groll, E. | Non-thesis: Performance Evaluation of Different Valve Control Strategies for Building HVAC Systems |
| Wang, Yiren S.<br>HL 80-17 | 1980 | MSME | Sullivan, J.W. | Analysis and Reduction of Noise of a Portable Air Compressor |
| Wang, Yiren S.<br>HL 82-47 | 1982 | Ph.D. | Crocker, M.J. | Transmission of Sound Through a Cylindrical Shell and a Light Aircraft Fuselage |
| Wang, Yuntian (Lucius) | 2015 | MSME | Shaver, G. | Increasing the High Load Limit of Effective Premixed Charge Compression Ignition Via Intake Valve Closure Modulation and Late Injection |
| Wani, Chaitanya | 2015 | MSME | Groll, E. | Non-thesis: Organic Rankine Cycle Using Scroll Expander |
| Warman, Benjamin | 2012 | MSME | Meckl, P. | Data Analysis of Diesel Engine Faults |
| Warner, Donald B.<br>HL 60-9 | 1960 | MSME | Chaddock, J.B. | Relation of Heat and Mass Transfer Coefficients in Tube Banks |
| Warner, Jay V.<br>HL 87-42 | 1987 | MSME | Bernhard, R.J. | Active Control of Sound Fields in Three-Dimensional Enclosures |

| NAME | YEAR | DEGREE | PROFESSOR(S) | TITLE |
|------|------|--------|--------------|-------|
| Warren, Donald G.<br>HL 94-18 | 1994 | MSME | Goldschmidt, V.W. | A Computer Model for Gas-Fired Tubular Heat Exchangers with Experimental Validations |
| Warren, Joe E.<br>HL 71-36 | 1971 | Ph.D. | Hamilton, J.F. | Contributions to the Mathematical Modeling of Capacitance Microphones |
| Waser, Max<br>HL 84-6 | 1984 | MSME | Hamilton, J.F. | Noise Transmission Characteristics of the Hermetic Shells of Fractional Horsepower Refrigerant Compressors |
| Waterman, W.F.<br>HL 63-16 | 1963 | MS | Chaddock, J.B. | A Study of a Rotating Blade Heat Exchanger |
| Waterman, W.F.<br>HL 65-19 | 1965 | Ph.D. | Chaddock, J.B. | The Determination of Local Heat Transfer Coefficients on a Rotating Flat Blade |
| Waters, David E.<br>HL 88-25 | 1988 | MSME | Bernhard, R.J. | An Investigation of Adaptive Digital Signal Processing Techniques Applied to Active Noise Control |
| Weisert, Wilson G. | 1969 | MSME | Soedel, W. | Non-thesis.  Research Study of Engine and Load Stand Development |
| Weiss, Bruce W.<br>HL 85-16 | 1985 | MSME | Tree, D.R. | Time Constants and Analysis of DOE Test Procedures for a Heat Pump in the Heating and Cooling Mode |
| Wensley, R. James<br>HL 58-11 | 1958 | MSME | Witzell, O.W. | An Apparatus for the Determination of the Viscosity of Refrigerants in the Liquid Phase |
| West, Jonathan D.<br>HL97-23 | 1997 | MSE | Braun, J. | Evaluation of Methods For Controlling Ice Storage Systems |
| Weston, Adam<br>HL97-27 | 1997 | MSME | Mongeau, L. | Measurements and Predicting of the Fluctuating Thrust of a Vane Axial Waterjet Pump |
| White, Edward M.<br>HL 69-47 | 1969 | MSME | Cohen, R. | Application of Mathematical Model to High Speed Reciprocating Compressors |
| White, Jonathan<br>HL 2006-7P | 2006 | MSME | Adams, D.E. | Impact and Thermal Damage Identification in Metallic Honeycomb Thermal Protection System Panels Using Active Distributed Sensing with the Method of Virtual Forces |
| White, Jonathan | 2010 | Ph.D. | Adams, D.E. | Operational Monitoring of Horizontal Axis Wind Turbines with Inertial Measurements |
| White, Ralph R.<br>HL 75-49 | 1975 | MSE | Goldschmidt, V.W. | Seasonal Performance Measurements and Modeling of a Mobile Home Gas-Fired Furnace |
| White, Robert D.<br>HL 76-5 | 1976 | MSME | Leidenfrost, W. | Experimental and Analytical Analysis of Boiling Heat Transfer Under High Centrifugal Acceleration |
| White, Robert D.<br>HL 78-55 | 1978 | Ph.D. | Leidenfrost, W. | Determination of Void Fractions for Improved Boiling Heat Transfer Evaluation in Rotating Heat Exchangers |
| White, Seth W.<br>HL98-22 | 1998 | MSME | Davies, P./ Bajaj, A. | Dynamic Modeling and Measurement of Occupied Car Seats and Seating Foam |
| Whiting, Ian | 1999 | MSME | Franchek, M. | Feasibility Study of Hydraulic Pump Parameter |

| NAME | YEAR | DEGREE | PROFESSOR(S) | TITLE |
|---|---|---|---|---|
| HL99-22 | | | | Estimation Via Measurement of Pump Electrical Capacitance |
| Whitman, Joshua | 2015 | MSME | Groll, E. | Non-thesis: Design of a Small Scale Cooling System for Application in Countertop Kitchen Appliances |
| Wichman, Adam HL 2007-8 | 2007 | MSME | Braun, J.E. | Evaluation of Fault Detection and Diagnosis Methods for Refrigeration Equipment and Air-Side Economizers |
| Widdle, Jr., Richard D. HL 2005-9 | 2005 | Ph.D. | Davies, P | Measurement and Modeling of the Mechanical Properties of Polyurethane Foam |
| Wiederhold, Jason H. HL 92-10 | 1992 | MSME | Bernhard, R.J. | Indirect Measurement of Forces Exciting Engine-Like Structures |
| Wilbers, Ollie J. HL 61-7 | 1961 | MSME | Witzell, O.W. | Viscosity Measurements for Several Fluorinated Hydrocarbon Vapors |
| Wildin, Maurice W. HL 59-10 | 1959 | MSME | Wellman, E.J. | A Study of Dehumidification in Forced Turbulent Flow |
| Wilhelm, Dean R. HL 79-34 | 1979 | MS | Goldschmidt, V.W. | Infiltration in Two Mobile Homes |
| Wilken, Irvin D. HL 71-19 | 1971 | Ph.D. | Soedel, W. | Simplified Prediction of the Vibrational Characteristics of Ring-Stiffened Cylindrical Shells |
| Williams, Keith A. HL 2001-16 | 2001 | Ph.D. | Chiu, G./ Bernhard, R.J. | An Investigation of the Design and Control of Shape Memory Alloy Adaptive Tuned Vibration Absorbers |
| Wilson, C. Lewis HL 68-1 | 1968 | MSME | Tree, D.R. | A Comparison of Air Content in Four Different Residential Homes |
| Wiltshire, Frank R. HL 71-8 | 1971 | MSME | Qvale, B. | A Test Facility for Small Two-Stroke Cycle I.C. Engines |
| Winiarz, Marek L. HL 76-40 | 1976 | MS | Sullivan, J.W. | Theoretical Modeling and Parameter Study of a High Frequency Acoustic Resonator |
| Witman, Robert D. HL 2001-10 | 2001 | MSME | Chiu, G. | Java Based Multi User Interface and Remote Control For Telemicroscopy |
| Witwer, Randall K. HL 78-39 | 1978 | MS | Sullivan, J.W. | An Investigation of a Simulated Drive-By Noise Measurement Concept for Heavy Vehicles |
| Wohlever, J. Chris HL 88-24 | 1988 | MSME | Bernhard, R.J. | Vibrational Power Flow Analysis of Rods and Beams |
| Wolfbrandt, Gary T. HL 74-38 | 1974 | MSME | Hamilton, J.F. | Damping Characteristics of Mastic Type Noise and Vibration Coatings |
| Wolfert, J. Jeff HL 89-33 | 1989 | MSME | Shoureshi, R. | Real Time Structural Parameter Identification with Applications for the Optimal Tuning of Adaptive Hydraulic Engine Mounts |
| Wolverton, Steve R. | 1974 | MSME | Soedel, W. | Application of Experimental Methods of Compressor |

| NAME | YEAR | DEGREE | PROFESSOR(S) | TITLE |
|------|------|--------|--------------|-------|
| HL 74-30 | | | | Design |
| Woodland, Brandon<br>HL 2015-5 (pdf only) | 2015 | Ph.D. | Braun, J.E. | Methods of Increasing New Work Output of Organic Rankine Cycles for Low-Grade Waste Heat Recovery with a Detailed Analysis Using a Zeotropic Working Fluid Mixture and Scroll Expander |
| Woods, Daniel | 2014 | MSME | Rhoads, J. | Non-thesis: The Thermomechanical, Near-Resonant Response of Energetic Materials |
| Woods, Daniel | 2016 | Ph.D. | Rhoads, J. | On the Use of Mechanical and Acoustical Excitation for Selective Heat Generation in Polymer-Bonded Energetic Materials |
| Wright, Anthony (Tony) | 2007 | MSME | Groll, E.A. | Non-thesis. Rapid-fire Combustion Engine |
| Wright, Donald<br>HL 68-46 | 1968 | Ph.D. | Cohen, R. | Design for Vibration of Control Mechanism of a Fluid Drive |
| Wulf, Tanya<br>HL 2009-9 | 2009 | MSME | Bernhard, R. | A Study of the Effect of Innovatively Textured Portland Cement Concrete Roadway Surfaces on Tire-Pavement Noise |
| Wyatt, Chancelor | 1997 | MSME | Krousgrill, C.M. | Non-thesis.  Acoustical Measurements of High Speed Spindle |
| Xue, Guangqing | 2011 | MSME | Chen, Y. | Design Tool for Under-Floor Air Distribution System |
| Yang, Bin | 2017 | Ph.D. | Groll, E. | Modeling of an Oil Free Carbon Dioxide Compressor using Sanderson-Rocker Arm Motion (S-RAM) Mechanism |
| Yang, Chulho<br>HL 2004-11 | 2004 | Ph.D. | Adams, D.E. | Experimental Embedded Sensitivity Functions for Use in Mechanical System Identification |
| Yang, Jinpu | 2014 | MSME | Meckl, P. | Non-thesis: Noise Study in Diesel Engines |
| Yang, Joseph C. H.<br>HL 83-31 | 1983 | Ph.D. | Hamilton, J.F. | Computer Aided Design of Multicylinder Reciprocating Compressor |
| Yang, Li<br>HL 2004-13 | 2004 | MSME | Braun, J.E. | The Impact of Fouling on the Performance of Filter-Evaporator Combinations and Rooftop Air Conditioners |
| Yang, Mingda | 2015 | MSME | Yao, B. | Non-thesis: Modeling and Control of a Hydraulic Arm |
| Yee, Victor<br>HL 82-33 | 1982 | Ph.D. | Soedel, W. | Analytical and Experimental Study of High Speed Rotary Sliding Vane Compressor Dynamics with Application to Transfer Slot Design |
| Yen, Ming-Shih<br>HL 79-31 | 1979 | Ph.D. | Schoenhals, R.J. | A Study of Thermally-Induced Pumping of Carbon Dioxide Through Natural Rubber Membranes |
| Yeum, Chul Min | 2016 | Ph.D. | Dyke, S. | Computer Vision-Based Structural Assessment Exploiting Large Volumes of Images |
| Yim, Denny M.<br>HL 95-12 | 1995 | MSME | Bolton, J.S. | Influence of Surface Variables on Motor Vehicle Passby Noise Measurements |

| NAME | YEAR | DEGREE | PROFESSOR(S) | TITLE |
|---|---|---|---|---|
| Yoder, Nathanael | 2010 | Ph.D. | Adams, D.E. | The Robust Detection of Cracks in Complex Aerospace Structures using Nonlinear Vibro-Acoustic Modulation |
| Yoo, Taewook | 2003 | MSME | Mongeau, L. | The Performance of Sound Barriers with Jagged Edges |
| Yoo, Taewook HL 2008-4 | 2008 | Ph.D. | Bolton, J. S. | The Modeling of Sound Absorption by Flexible Micro-Perforated Panels |
| You, Ruoyu | 2018 | Ph.D. | Chen, Y. | Investigating Airflow Distribution and Contaiminant Transport in Commercial Aircraft Cabins |
| Yuill, David HL 2014-8 | 2014 | Ph.D. | Braun, J. | Development of Methodologies for Evaluating Performance of Fault Detection and Diagnostics Protocols Applied to Unitary Air-Conditioning Equipment |
| Young, Cheng J. HL 73-18 | 1973 | Ph.D. | Crocker, M.J. | Acoustic Analysis of Mufflers for Engine Exhaust Systems |
| Young, Marvin F. HL 73-31 | 1973 | MSME | Goldschmidt, V.W. | A Turbulence Study: Convective Velocities, Energy Spectra and Turbulent Scales in a Plane Air Jet |
| Yu, Tao | 2005 | MSME | Bolton, J. S. | Non-Thesis: Acoustics |
| Yum, Kiho | 2005 | Ph.D. | Bolton, J.S. | Control of Structural-Acoustic Radiation From Tires by Structural Modification |
| Yun, Richard J. HL98-13 | 1998 | MSME | Bolton, J.S. | Development of a New Sound Transmission and Numerical Optimization of Sound Absorption and Transmission |
| Zanartu Salas, Matias HL 2006-10 | 2006 | MSE | Mongeau, L./Wodicka, P.l | Influence of Acoustic Loading on the Flow Induced Oscillations of Single Mass Models of the Human Larynx |
| Zanartu Salas, Matias | 2010 | Ph.D. | Wodicka, G. | Acoustic Coupling in Phonation and Its Effect on Inverse Filtering of Oral Airflow and Neck Surface Acceleration |
| Zen Ruffinen, Mark A. HL 91-8 | 1991 | MSME | Goldschmidt, V.W./ Jones, J.D. | Noise Source Identification on a Pulse Furnace with Potential Methods of Noise Control |
| Zhang, Tengfei | 2007 | Ph.D. | Chen, Y. | Detection and Mitigation of Contaminant Transport in Commercial Aircraft Cabins |
| Zhang, Zhao | 2005 | MSME | Chen,Y. | A Study on Transport and Distribution of Indoor Particulate Matter |
| Zhang, Zhao | 2007 | Ph.D. | Chen, Y. | Modeling of Airflow and Contaminant Transport in Enclosed Environments |
| Zhang, Zhaoyan HL 2002-16 | 2002 | Ph.D. | Mongeau, L./ Frankel, S. | Experimental Study of Sound Generation by Confined Jets with Application to Human Phonation |
| Zhao, Wei HL 2000-14 | 2000 | Ph.D. | Frankel, S./ Mongeau, L. | A Numerical Investigation of Sound Radiated from Subsonic Jets with Application to Human Phonation |
| Zhao, Weikang | 2015 | MSME | Yao, B. | Non-thesis: Modeling and Control of a Hydraulic Arm |

| NAME | YEAR | DEGREE | PROFESSOR(S) | TITLE |
|---|---|---|---|---|
| Zhong, Zhipeng<br>HL 2008-3 | 2008 | Ph.D. | Braun, J. | Combined Heat and Moisture Transport Modeling for Residential Buildings |
| Zhou, Keqin | 2014 | MSME | Meckl, P. | NO and $NO_2$ Modeling for Diesel Oxidation Catalyst at Different Thermal Aging Levels |
| Zhou, Xiaotang<br>HL 2005-12 | 2005 | Ph.D. | Braun, J. | Dynamic Modeling of Chilled Water Cooling Coils |
| Zieringer, Erhard<br>HL 75-51 | 1975 | MSME | Pearson, J.T. | Numerical Solutions for the Performance of Dehumidifying Heat Exchangers with Variable Circuiting |
| Zinsmeister, George E.<br>HL 63-4 | 1963 | MSME | Fontaine, W.E. | Some Considerations in the Control of Environment in Fallout Shelters |
| Zuo, Wanga | 2010 | Ph.D. | Chen, Y. | Advanced Simulations of Air Distributions in Buildings |
| Zwink, Brandon | 2010 | MSME | Adams, D.E. | Nondestructive Evaluation of Composite Material Damage using Vibration Reciprocity Measurements |