

Degree Year	Last Name	First Name	Thesis Director(s)	Thesis Title
2008	Ciarcia	Marco	A. Miele	Optimal Starting Conditions for the Rendezvous Maneuver: Analytical and Computational Approach
2008	Dutta	Sushant	F. H. Ghorbel	Magnetic Flux Leakage Sensing: The Forward and Inverse Problems
2008	Gkaras	Vasileios	P. D. Spanos	Vibration Isolation Systems Using Hysteretic Multiple Tuned Mass Damper Oscillators
2008	Jiao	Kun	B. I. Yakobson	Computational Study of Defects Dynamics in Carbon Nanotubes and Fullerenes
2008	Li	Yanfang	M. K. O'Malley	Shared Control: Active Haptic Assistance for Motor Skill Training in Virtual Environments
2008	Lin	Yu	B. I. Yakobson	Atomistic Modeling of Nano-Materials: From Classical to ab initio Simulations in Different Timescales
2008	Simien	Daneesh	E. V. Barrera	Single Wall Carbon Nanotubes as Viscosity Modifiers in Polypropylene Matrix Nanocomposites
2008	Wang	Juan	P. D. Spanos	Stochastic Fatigue Analysis of FPSO Topside Structures with Linear and Nonlinear Supports
2008	Wilson	Kenneth	Y. Bayazitoglu	Processing of Single-Walled Carbon-Nanotube Metal Matrix Composites and a Finite Element Model for the Process
2007	Kontsos	Antonios	P. D. Spanos	Polymer Nanocomposites Characterization by a Stochastic Finite Elements Representation
2007	McJunkin	Samuel	M. K. O'Malley	Transparency Improvement for Haptic Interfaces
2007	Wang	Jianxin	C. M. Landis	Fracture Toughening of Ferroelectric Ceramics under Electro-Mechanical Loading
2006	Arora	Dhruv	C. M. Landis/M. Behr	Computational Hemodynamics: Hemolysis and Viscoelasticity
2006	Senga	Masayoshi	T. E. Tezduyar	Improved SUPG Formulations for Compressible Flows
2006	Weeks	Michael	A. Miele	The Computation of Optimal Rendezvous Trajectories using thhe Sequential Gradient-Restoration Algorithm
2005	Chen	Guoquan	S. S. Collis	Multi-model Simulation for Optimal Control of Aeroacoustics
2005	Corral	Erica	E. V. Barrera	Single-walled Carbon Nanotube-Si3N4 Composites
2005	Ghosh	Rupak	P. D. Spanos	Effect of Top Tensioned Risers (TTR) on the Spar Response: Time Domain and Frequency Domain Approaches
2005	Kerr	Justin	E. V. Barrera	Ground Based Impact Testing of Orbiter Thermal Protection System Materials in Support of the Columbia Accident Investigation
2005	Kumar	Vinod	E. V. Barrera/R. A. Tapia	Advanced Computational Techniques for Incompressible/Compressible Fluid-Structure Interactions
2005	Ley	Obdulia	Y. Bayazitoglu	Hypothermic Brain Protection Strategies Using Thermal Models
2005	Politis	Nikolaos	P. D. Spanos	Wavelets Based Time-Frequency Analysis Techniques in Structural Engineering
2005	Ramakrishnan	Srinivas	P. D. Spanos	Local Variational Multi-Scale Method for Turbulence Simulation
2005	Tezcan	Jale	P. D. Spanos	Nonlinear System Response to Nonstationary Input Processes Using Harmonic Wavelets
2005	Udoewa	Victor	E. V. Barrera/R. A. Tapia	Computational Techniques for Aerodynamic Simulations of Multiple Objects Emphasizing Paratrooper-Aircraft Separation
2005	Ungor	Mehmet	J.E. Akin	Mixed Interface-Tracking/Interface-Capturing Technique for Computation of Moving Objects in Multiple Fluids
2005	Wang	Zhiyong	F. H. Ghorbel	Modeling and Control of Closed Kinematic Chains: A Singular Perturbation Approach
2005	Williams	Powtawche	A. Miele	Optimization of Interplanetary Trajectories to Mars via Electrical Propulsion
2004	Abraham	Feby Varughese	Y. Bayazitoglu	Stabilized Finite Element Solution of Optimal Control Problems in Computational Fluid Dynamics

2004	Cruz-Banuelos	Santiago	E. V. Barrera	Ballistic Limit Equation for Hypervelocity Impact on Composite-Orthotropic Materials
2004	Lu	Kun	J. W. Clark/F. H. Ghorbel	Human Whole-Body Gas Exchange and Cerebral Autoregulation Studies Using a Cardiopulmonary Model
2004	Rodriguez Macias	Fernando	E. V. Barrera	Fully Integrated Single-Walled Carbon Nanotube Thermoplastic Composites
2004	Sathe	Sunil	T. E. Tezduyar	Enhanced-Discretization and Solution Techniques in Flow Simulations and Parachute Fluid-Structure Interactions
2004	Shofner	Meisha	E. V. Barrera	Nanotube Reinforced Thermoplastic Polymer Matrix Composites
2003	Dobrinisky	Alexander	S. S. Collis	Adjoint Analysis for Receptivity Prediction
2003	Guven	Oguzhan	Y. Bayazitoglu	Radiative Transfer Solution with Discrete Wavelets in the Angular Domain
2002	Tratskas	Petros	P. D. Spanos	Wavelet-based Excitation Representation and Response Determination of Linear and Nonlinear Systems
2002	Tunc	Gokturk	Y. Bayazitoglu	Convective Heat Transfer in Microchannel Gaseous Slip Flow
2002	Wagner	Howard	Y. Bayazitoglu	Critical Point Pressure Sensitivity
2002	Yowell	Leonard	E. V. Barrera	Thermal Management in Ceramics: Synthesis and Characterization of a Zirconia-Carbon Nanotube Composite
2001	Chevallier	Arnaud	P. D. Spanos	Nonlinear Stochastic Drilling Vibrations
2001	Fernandez	Alvaro	A. J. Meade	An Object-Oriented Framework for Solving Model Problems Using the Sequential Function Approximation Algorithm
2001	Gandhi	Prasanna	F. H. Ghorbel	Modeling and Control of Nonlinear Transmission Attributes in Harmonic Drive Systems
2001	Hos	Pascal	Y. Bayazitoglu	Nanoscale Thermal Systems in Subcritical Region
2000	Arjona-Baez	Javier	J.E. Akin	Structural Topology and Shape Optimization Using the Finite Element Method
2000	Athanasiaides	Athanasios	F. H. Ghorbel	Respiratory Function: A Systems Approach
2000	Chang	Yong	S. S. Collis	Approximate Models for Optimal Control of Turbulent Channel Flow
2000	Fuentes	Arturo	Y. Bayazitoglu	Dynamics of Deformed Droplets: Thermophysical Property Measurement Using Acoustic Levitation
2000	Mayeaux	Brian	E. V. Barrera	Synthesis, Characterization, and Thermal Properties of Ceramic-Fullerene Thin Films
2000	Olansen	Jon	F. H. Ghorbel/Clark	Virtual Bio-Instrumentation: Integrating Biomedical Experimentation with Systems-Level Modeling and Analysis
2000	Rao	Vallabhajosyula Ravi	P. D. Spanos	A Wavelet Based Numerical Scheme for Stochastic Mechanics
2000	Smith	James	Y. C. Angel	The Use of Shock Physics to Predict the Mechanics of Hypervelocity Impact
2000	Thomson	David	A. J. Meade	Sequential Function Approximation of the Radiative Transfer Equation
2000	Zhong	Xiaoyan	Y. Bayazitoglu	The Lorentz Force and Temperature Distribution in a Longitudinal Electromagnetically Levitated Sample
1999	Callender	Rhonda	A. R. Barron	Advanced Ceramic Composites and Coatings via Alumoxane Nanoparticles
1999	Chao	Chi-Shun	A. Miele	Optimal Control of Ship Maneuvers for Course Change, Sidestep, and Collision Avoidance
1999	Gunawardana	Ruvinda	F. H. Ghorbel	Control of Serial and Parallel Robots: Analysis and Implementation
1999	Li	Ning	B. M. Lairson	Longitudinal Recording on FePt and FePtX (X=B, Ni) Intermetallic Compounds
1999	Lozano	Karen	E. V. Barrera	Development and Characterization of a Nanofiber Reinforced Thermoplastic Composite
1999	Song	Haitao	G. M. Pharr	Selected Mechanical Problems in Load and Depth Sensing Indentation Testing
1999	Wang	Ye	Y. Bayazitoglu	Wavelets and the Discrete Ordinate Method for the Solution of Radiative Heat Transfer through a Participating Medium
1999	Zang	Donghui	R. B. McLellan	Statistical Mechanics and Kinetics of Hydrogen Vacancy Interaction of Metals
1999	Zheng	Lingyi	E. V. Barrera	Novel Metal-C60 Nanocrystalline Magnetic Thin Films

1998	Dabney	James	A. Miele	Optimal Combat Maneuvers of a Next-Generation Jet Fighter Aircraft
1998	Davis	Gregory	P. D. Spanos	An Analysis of Nonlinear Damping and Stiffness Effects in Force-Limited Random Vibration Testing
1998	Diftler	Myron	I. D. Walker	Alignment of Threaded Parts Using a Robot Hand: Theory and Experiments
1998	Gopalan	Priya	J.E. Akin	Differential Roles of Adhesion Receptors during Neutrophil Adhesion to Endothelial Cells under Flow Conditions
1998	Ho	Kuok San	B. M. Lairson	Magnetic Recording on Co-alloy Perpendicular Multilayers
1998	Kokkolaras	Michael	A. J. Meade	Utilizing Parallel Optimization in Computational Fluid Dynamics
1998	Mancuso	Salvatore	P. D. Spanos	Ascent Performance Feasibility for Next-Generation Spacecraft
1998	Maroevic	Petar	R. B. McLellan	Equilibrium and Diffusion Studies of Metal-Hydrogen Systems
1998	Schouterden	Kris	B. M. Lairson	Evolution of Friction and Wear in Amorphous Carbon Thin Films
1998	Sheng	Xiayang	E. V. Barrera	Processing and Characterization of Copper-Fullerene Systems
1998	Zhao	Wei	F. R. Brotzen	Transverse Thermal Conductivity of Thin Dielectric Films
1997	Liu	Wen Hong	B. M. Lairson	Reduced Exchange Coupling in Perpendicular Multilayers
1997	Moreno	Rafael	B. Ramaswamy	Object-Oriented Implementation of the Galerkin Finite Element Method and Its Application to the Numerical Study of Natural Convective Flows in Enclosures
1997	Shampine	Rod	Y. Bayazitoglu	Experimental and Analytical Results for Longitudinal Electromagnetic Levitation
1997	Tsui	Ting Yiu	G. M. Pharr	Factors Limiting the Accuracy of Mechanical Property Measurement by Nanoindentation
1997	Yang	Haining	F. R. Brotzen	Electrostatic Adhesion Testing of Metallizations on Silicon Substrates
1996	Ad-Doheyan	Abdrahman	Y. C. Angel	Scattering of Antiplane Surface Waves by an Embedded Crack in a Layered Elastic Solid
1996	Bolshakov	Alexei	G. M. Pharr	Finite Element Studies of Mechanical Property Testing by Nanoindentation Methods
1996	Chippada	Srinivas	B. Ramaswamy	Numerical Study of Thin-Film Flows and Open-Channel Flows
1996	Koba	Yuri	Y. C. Angel	Average Antiplane Motion in an Elastic Solid Containing a Layer of Randomly Distributed Cracks
1996	Krishnamoorthy	Sivaramakrishna	B. Ramaswamy	Instabilities in Heated Falling Films: a Full-Scale Direct Numerical Simulation
1996	Miller	Scott	P. D. Spanos	Multibody Mechanics and the Residual Flexibility Method
1996	Olivas	John	E. V. Barrera	Surface Study of Process Contamination of Plasma Spray Metal Deposition Process
1995	Badders	Daniel	M. M. Carroll	Plasticity, Localization, and Friction in Porous Materials
1995	Eberle	Robert	P. D. Spanos	Two-Stage ARMA Spectral and Bispectral Modeling with Application to Space Shuttle Flight Data
1995	Harding	D. Scott	G. M. Pharr	Cracking in Brittle Materials during Low-Load Indentation and Its Relation to Fracture Toughness
1995	Majed	Arya	P. D. Spanos	A Residual Flexibility Approach for Decoupled Analysis of Nonlinear, Nonclassically Damped Systems of Combined Components
1995	Morris	Jonathan	D. Callahan	Microstructural Analysis of Plasticity in Low-Load Contact Damage of Silicon and Germanium
1995	Rowatt	John	P. D. Spanos	Application of Markov Chains to the Critical Element Model for Determining the Fatigue Life of Composites
1995	Sathuvalli	Udaya	Y. Bayazitoglu	Force and Heat Generation in a Conducting Sphere in an Alternating Magnetic Field
1995	Yang	Liu	R. B. McLellan	The Hydrogen Solubility and Diffusivity in Ni <sub>3</sub> Al and Developing a Hydrogen Tolerant Ni <sub>3</sub> Al Alloy
1994	Hernandez	Sandra	F. R. Brotzen	Corrosion Susceptibility of Thin Films
1994	Magee	Kevin	J. Cheatham	A Vision-Based Fuzzy Logic and Neural Network Approach to the Control of Hyper-Redundant Robot Manipulators

1994	Trevas	David	A. Chapman	The Effect of Shear on the Thermal Conductivity of Non-Newtonian Fluids
1993	Chen	Weng-Pin	J.E. Akin	A Three-Dimensional Finite Element Method for Quantifying Stress Shielding Following Total Hip Replacement
1993	Gillespie	Paul	D. Callahan	Photoluminescence of Nitrogen-Doped Zinc Selenide by Photo-Assisted MOCVD
1993	Hou	Fu Joseph	J.E. Akin	Linear and Non-linear Finite Element Modeling of Bone-Implant System in Uncemented Total Hip Arthroplasty
1993	McMahon	James	Y. C. Angel	Energy Release Rate in a Cracked Elastic-Plastic Solid
1993	Teng	Yang-ming	J.E. Akin	Finite Element Approaches to Phase Change Problems with Application to Casting Processes
1993	Wasz	Margot	R. B. McLellan	Cell Models for the Thermodynamics and Kinetics of Interstitials in Metallic Solutions
1993	Wu	Guangdian	A. Miele	Windshear Identification and Detection in Simulated and Real Environments
1993	Zhao	Zhigao	A. Miele	Optimal Trajectories for the Aeroassisted Flight Experiment
1992	Adnan	Sarmad	J. Cheatham	Design, Analysis, Implementation, and Control of a Mobile Robotic Testbed for Telepresence
1992	Barry	Matthew	J.E. Akin	A Qualitative Theory of Gas Dynamics
1992	Jue	Tswen-Chyuan	B. Ramaswamy	Numerical Study of Cavity Natural Convection Flow with Augmenting and Counteracting Effects by Projection Finite Element Method
1992	Payne	Michael	P. D. Spanos	Drilling Bottom-Hole Assembly Dynamics
1992	Wang	Hoo	A. Miele	Optimization of Flight Trajectories in a 3D Model of Windshear Flow Field
1991	Berka	Reginald	P. D. Spanos	Development of a Large Space Robot: A Multi-Segment Approach
1991	Chang	Chih-Han	J.E. Akin	Computer Aided Design of Femoral Stem Prostheses
1991	Chen	Yu-Che	J. Cheatham/I. Walker	A New Method for Solving the Kinematics of Multifingered Grasping and General Redundant Manipulators: A Task Oriented Approach
1991	Collard	Stephen	R. B. McLellan	High-Temperature Elastic Constants of Gold Single-Crystals
1991	Griffin	Alfred	F. R. Brotzen	Impedance Spectroscopy Response Aluminum-Copper-Silicon Alloys
1991	Ji	Ching-China	R. D. Cohen	Analysis of Combustion of Pulverized Coal by Diffusion Flame
1991	Jones	Peter	Y. Bayazitoglu	Radiation and Convection Heat Transfer in Particle-Laden Fluid Flow
1991	Norwood	John	J. Cheatham	A Neural Network Approach to the Redundant Robot Inverse Kinematic Problem in the Presence of Obstacles
1991	Peterson	Jill	Y. Bayazitoglu	Entrainment and Turbulence Characteristics of Low Velocity Isothermal and Buoyant Jets
1991	Suryanarayana	Poodipeddi	Y. Bayazitoglu	Interfacial Dynamics of Liquid Droplets and Thermophysical Property Measurement
1991	Weiland	Peter	J. Cheatham	A Connectionist Approach to Autonomous Robotic Navigation
1990	Bhattacharjee	Subir	P. D. Spanos	Filter Approches to Stochastic Dynamic Analysis of Compliant Offshore Platforms
1990	Boriek	Aladin	C. Armeniades	Modeling of Setting Stresses in Particle Reinforced Polymer Composites Using Finite Element Analysis
1990	Mofid	Massod	J.E. Akin	Development of an Elastic Solution for Predicting the Dynamic Response of Beams Subjected to a Moving Mass
1990	Regalbuto	Michael	J. Cheatham	A Semi-Autonomous Mobile Robot/Teleoperator with Applications as an Aid for Severely Handicapped People
1990	Wu	Chris	J. Cheatham	The Use of a Laser Imaging System for Automated Vehicle Guidance and Space Servicing Tasks
1989	Baykara	Tarik	G. M. Pharr	Effects of Liquid Phases on Interfacial Sliding in Alkali Halide Crystals
1989	Krishnan	Shankar	J. Margrave	Thermophysical and Optical Property Measurements of Electromagnetically Levitated Liquid Metals

1989	Lee	Woon yung	A. Miele	Optimal Trajectories for Hypervelocity Flight
1989	Rosenmayer	Charles	F. R. Brotzen	Characterization of VLSI Interconnect Materials: Mechanical Behavior, Time Dependent Plasticity, and Electromigration
1989	Rothberg	Robert	A. Chapman	A Numerical Study of Vortex-Shedding Suppression in Laminar Flow about a Cylinder near a Plane Boundary
1989	Roy	Romain	P. D. Spanos	Pade-Type Solutions to Nonlinear Stochastic Dynamics
1989	Stephens	Denny	J.E. Akin	Finite Element Solution Methods for Linear and Nonlinear Beam-on-Foundation Problems
1989	Tzeng	Ching-Yaw	A. Miele	Windshear Estimation Along the Trajectory of an Aircraft
1988	Tibbits	Patrick	G. M. Pharr	Application of Numerical Methods to Dislocation Modeling of Creep
1987	Allen	Donald	W. Walker	Numerical Simulation of Vortex-Induced Oscillation of an Elastically Mounted Circular Cylinder Using Body-Fitted Coordinates
1987	Lam	Tung Ting	Y. Bayazitoglu	Numerical Optimization for Convective Instability
1987	Lin	Yu-Hsu	J. Cheatham	Analysis of Cavity Stability in Weak Porous Rocks Using a Straining Softening Method
1987	Mignolet	Marc	P. D. Spanos	Arma Simulation of Multivariate and Multidimensional Random Processes
1986	Basapur	Venkatesh	A. Miele	Aeroassisted Coplanar Orbital Transfer of Flight Vehicles Using the Sequential Gradient-Restoration Algorithm
1986	Loos	Peter	F. R. Brotzen	Diffusion near a Tensile Crack
1985	Coker	Estelle	A. Miele	Sequential Gradient-Restoration Algorithm for Optimal Control Problems with Control Inequality Constraints and General Boundary Conditions
1985	Ishikawa	Tomaz	R. B. McLellan	Hydrogen Diffusivity in Noble Metals at Low Temperatures
1985	Kehtarnavaz	Homayun	Y. Bayazitoglu	Solidification of Binary Mixture in a Finite Planar Medium
1985	Kwon	Young	J.E. Akin	Finite Element Methods for Plate Bending
1985	Malahy	Robert	W. F. Walker	A Nonlinear Finite Element Method for the Analysis of the Offshore Pipelaying Problem
1985	Wang	Tong	A. Miele	Duality Properties and Sequential Gradient-Restoration Algorithms for Optimal Control Problems
1984	Fahrenthold	Eric	J. Cheatham	Elastic and Plastic Stresses in a Porous Medium Containing Spherical or Cylindrical Cavities
1984	Mattos Neto	Antonio Gomes de	R. M. Bowen	A General Model for Multiphase Mixtures and Applications
1984	Roberson	Kyle	C. C. Wang	Dynamics of a Poroelastic Solid with Two Pore Fluids
1984	Venkataraman	Panchapakesan	A. Miele	Minimax Optimal Control in the Reentry of a Space Glider
1983	Freed	DeBow	W. F. Walker	Biochemical and Morphologic Effects of Cavitation on Normal Human Platelets
1983	Kuo	Yan Min	A. Miele	Modified Quasilinearization Algorithm for Optimal Control Problems with Nondifferential Constraints and General Boundary Conditions
1982	Kamata	Masahiro	H. K. Beckmann	Oil Slick Behaviour in Waves
1981	Camargo	Paulo	F. R. Brotzen	Certain Physical Properties of Transition Metal Alloys
1981	Ho	Cheng-Yo	J. Cheatham	Three-Dimensional Aspects of the Plastic Deformation of Anisotropic Rocks
1981	Mei	Lu-Tsuen	J. Cheatham	Strain-Hardening and Rate Effects in Plasticity
1981	Yang	Ming	A. D. Krawitz	Resistometric Study of FE-Based Alloys Nitrided by Constant Activity Aging
1981	Yei	Wei-Ming	R. B. McLellan	Hydrogen in Metals
1980	Anderson	Charles	F. R. Brotzen	The Single Crystal Elastic Constants of the Tantalum-Tungsten Alloy System from 4.2 to 300 K
1980	Bhardwaj	Jayant	W. F. Walker	X-Ray Diffraction Study of the Structure of Boron in Vapor-Deposited Boron Fibers

1980	Blanford	Mark	W. F. Walker	Development of an Analytical Model for the Ultimate Capacity of Axially Loaded Grouted Pile to Jacket Connections
1980	Drake	Eric	A. D. Krawitz	Fatigue Damage in a WC-Nickel Cemented Carbide Composite
1979	Dube	Charles	W. F. Walker	A Holographic Investigation of the Effects of Cavitation near Moving Prosthetic Surfaces
1979	Farraro	Raymond	R. B. McLellan	Correlation between the Kinetic and Thermodynamic Properties of Interstitial Solid Solutions
1979	Lin	An-Chung	F. R. Brotzen	Thermoelectric Power of Mo-RICH-Re, Mo-Nb, Nb-RICH-Zr, and W-Ta Alloys
1979	Lin	Shaw-Wen	B. F. Picologlou	Finite Element Solutions of Three Dimensional Creeping Flows
1979	Wu	An-Kuo	A. Miele	Numerical Computation of Optimal Controls via Conjugate Gradient-Restoration Techniques
1978	Mohanty	Bhabani	A. Miele	Chebyshev Minimax Problems and Numerical Optimization
1978	Tokuno	Toshimasa	W. F. Walker	Cavitation Inception on Decelerating Surfaces
1977	Sutherland	Daniel		The Thermodynamic Significance of the Yield Function in the Theory of Plasticity
1976	Garrett	David	J. Cheatham	Finite Deformation of Elastic-Plastic and Elastic/Viscoplastic Continua
1976	Goncalves da Silva	Jose Roberto	R. B. McLellan	The Thermodynamics and Kinetics of Interstitial Solid Solutions
1976	Levie	Harold	C. G. Harkins	Studies of the Kinetics of Environmental Hydrogen Embrittlement in Titanium Alloys
1976	Parris	Daniel	R. B. McLellan	On the Kinetics and Thermodynamics of Metallic Solid Solutions
1975	Coldwell	Douglas	R. B. McLellan	Thermodynamics of Ternary Interstitial Solid Solutions
1975	Stafford	Stephen	R. B. McLellan	The Thermodynamics of Interstitial Hydrogen Solid Solutions and Metal Hydrides
1974	Mitchell	Robert	R. M. Bowen	On the Thermodynamics of Mixtures of Materials with Memory
1973	Arnoult	William	J. M. Roberts	Problems in the Deformation of Metals: (1) Vacancy Formation Free Energy; (2) Dislocation Attack Frequency; (3) Microstrain in Stage I-Easy Glide Region
1973	Hayes	Donald	F. R. Brotzen	Hall Effect, Resistivity, and Elastic Constants of Nb and Nb-Rich Zr Alloys
1973	McKinney	Patrick	W. F. Walker	An Investigation of the Thermodynamic Performance of a Discharging Spherical Pressure Vessel
1972	Hubbell	Wayne	F. R. Brotzen	The Elastic Constants and Interatomic Force Constants of Niobium-Molybdeum Alloys
1972	Kojic	Milos	J. Cheatham	Influence of Fluid Pressure Gradient on Plasticity of Porous Media
1972	Levy	A.V.	A. Miele	Mathematical Programming for Constrained Minimal Problems: Modifications and Extensions of the Conjugate Gradient-Restoration Algorithm
1972	McStravick	David	A. Chapman	The Effect of Surface Roughness on the Reflected and Emitted Energy from a Rough Surface of Infinite Extent Subjected to Solar Irradiation
1972	Moseley	Phillip	A. Miele	Modified Method of Multipliers for Mathematical Programming Problems
1972	Naqvi	Sarwar	H. Y. Huang	Extremization of Terminally Constrained Control Problems
1972	Rankin	Robert	R. M. Bowen	The Propagation of Curved Waves in Mixtures with Several Temperatures
1972	Schneider	William	R. M. Bowen	A Study of Linear Fluid-Solid Mixtures
1972	Well	Klaus	A. Miele	Modified Quasilinearization Method for Optimal Control Problems with Bounded State Variables
1971	Chraska	Pavel	R. B. McLellan	Thermodynamic Properties of Ternary Solid Solutions with Interstitially Dissolved Carbon
1971	Cragg	Edward	A. Miele	On a Conjugate Gradient-Restration Algorithm for Mathematical Programming Problems
1971	Cross	James	C. C. Wang	Theory of Inhomogeneous Membranes
1971	Dalton	James	F. A. Wierum	The Production of Population Inversions by Injecting Neon into an Arc-Heated Rapidly-Expanding Helium Plasma

1971	Green	William	J. C. Wilhoit	Finite Deformation of Cylindrical Shells with Simply Connected Overlapped Cross Section in Pure Bending
1971	Liu	Po-Ching	F. R. Brotzen	The Galvanomagnetic Effect on Fermi Surface and AC and DC Measurements on Molybdenum and Molybdenum-Rhenium Alloys
1971	Miller	Terrell	J. Cheatham	A Consistant Workhardening Theory for Porous Limestone
1971	Schellin	Thomas	H. K. Beckmann	Hydrodynamic Forces on an Oscillating Circular Cylinder with a Pair of Trailing Vortices Developed behind the Cylinder
1971	Siller	Richard	R. B. McLellan	The Thermodynamics and Diffusion Kinetics of Interstitial Solid Solutions
1971	Simon	Carlos	W. F. Walker	An Analytical Study of the Flow of Turbidity Currents
1971	Smith	Conrad	H. K. Beckmann	The Influence of the Interaction between Wake and Free Surface on Hydrodynamic Drag Forces
1971	Spargo	William	W. F. Walker	A Model for Predicting the Pressure within the Recirculation Bubble of an Attached Jet
1971	Sustek	Alvin	F. A. Wierum	An Experimental Investigation of Nonequilibrium Corner Expansion Flows of Dissociated Oxygen Generated in a Glow Discharge Shock Tube
1971	Wolfram	W.Robert	W. F. Walker	Swirling Flow of a Dissociated Gas
1970	Carson	Kent	M. L. Rudee	The Fabrication and Properties of Boat Evaporated Permalloy Thin Films
1970	Clarke	Robert	J. D. Ingram	A Continuum Theory for Fluid Surface Phenomena
1970	Cox	Ronald	A. Chapman	Multiple, Stable Solutions for Flow Networks Involving Fluids of Highly Temperature Dependent Viscosity Subjected to High Rates of Cooling
1970	Damoulakis	John	A. Miele	Modifications and Extensions of the Sequential Gradient-Restoration Algorithm
1970	Dunn	William	R. B. McLellan	The Thermodynamic Properties of Interstitially Dissolved Carbon in Iron, Cobalt, and Nickel
1970	Ellis	Patrick	F. A. Wierum	Cylindrical Implosion Driven Projectile Launcher
1970	Forrinstall	George	J. D. Ingram	Elastodynamics of a Wedge
1970	Heideman	John	A. Miele	Sequential Conjugate Gradient-Restoration Algorithm for the Minimization of Constrained Functions
1970	Horowitz	Samuel	M. L. Rudee	A Study of the Relation between Structure and Magnetic Properties in Vapor Deposited NI-FE Thin Films
1970	Iyer	R.R.	A. Miele	General Technique for Solving Nonlinear, Two-Point Boundary-Value Problems via the Method of Particular Solutions
1970	Jones	Warren	H. K. Beckmann	Forces on a Transverse Circular Cylinder in the Turbulent Boundary Layer of a Steady Flow
1970	Kirkpatrick	John	W. F. Walker	A Numerical Study of Two-Dimensional, Turbulent, Compressible Reattached Jet Flow in Air
1970	McGinness	John	R. B. McLellan	Vibrational Entropy of the Dilute Silver-Gold System
1970	O'Keiff	Gustav	H. K. Beckmann	Acoustic Oscillations in Partially Ionized Argon Columns
1970	Pritchard	Robert	A. Miele	Base Drag Effects on Maximum Lift-to-Drag Ratio Air Foils at Moderate Supersonic Speeds
1970	Shero	James	A. Chapman	Porous Plate Sublimator Analysis
1970	Sprague	James	M. L. Rudee	The Properties of Defect Clusters in Neutron-Irradiated Silicon
1970	Strouhal	George	F. A. Wierum	Flow and Heat Transfer in Semitransparent Porous Media
1969	Adorjan	Alexander	F. A. Wierum	The Effect of Surface Roughness on the Radiative Properties of Absorbing and Emitting Media
1969	Coplin	Donald	J. M. Roberts	Stress Relaxation Study of Monocrystals of Some BCC Metals and Alloys

1969	Garcia	Donald	R. M. Bowen	A Study of Theories of Mixtures with Several Temperatures
1969	Hirsch	Martin	F. A. Wierum	An Experimental Evaluation of the Total and Ablation Products Radiation in a Hypersonic Shock Layer
1969	Kistler	Ernest	F. A. Wierum	An Investigation of the Stability of Flows Using the Direct Method of Liapunov
1969	Pankratz	John	M. L. Rudee	An Electron Microscope Investigation of Neutron Damage in Silicon
1969	Park	James	W. F. Walker	A Numerical Method of Solution for the Equations Describing the Compressible, Turbulent, Time-Dependent Flow of an Ideal Gas near a Solid Boundary
1969	Weston	Kenneth	J. D. Ingram	A Continuum Theory of the Thermodynamics of a Radiating Gas
1968	Bannerot	Richard	F. A. Wierum	Gas Radiative Heat Transfer in a Conical Nozzle
1968	Chang	Ing	F. A. Wierum	Radiant Heat Transfer in an Absorbing-Emitting Gas Flowing through a Long Circular Pipe
1968	Davidson	David	F. R. Brotzen	The Properties of Solid Solution, Molybdenum-Rich, Molybdenum-Rhenium Alloys From -190c to +100c
1968	Gibbs	Sam	H. K. Beckmann	Determination of Water Particle Motions from Profile Measurements in Confused Seas
1968	Huang	Ho-Yi	A. Miele	Transversal Contour of a Conical Body Having Maximum Lift-to-Drag Ratio at Hypersonic Speeds
1968	Hurley	Francis	F. A. Wierum	A Problem of Three-Dimensional Hypersonic Boundary Layer Interaction
1967	Bedford	Anthony	J. D. Ingram	A Continuum Theory of Heat Conducting Fluid Solid Mixtures with Applications to Transit Wave Propagation
1967	Boddie	William	F. A. Wierum	An Experimental Study of Radio-Frequency Induction Heating of a Partly Ionized Monatomic Gas in a Supersonic Flow Regime
1967	Carney	Terrance	R. M. Goldwyn	On Joint Estimation of the State and Parameters for an Autonomous Linear System Based on Measurements Containing Noise
1967	Chang	Chin-Hsiung	J. Margrave	Chemical Reactions at High Pressures and High Temperatures
1967	Clifton	James	A. Chapman	Condensation of a Pure Vapor, and Natural Convection on a Finite-Size Horizontal Plate
1967	Frost	Milton	F. A. Wierum	Spectroscopic Study of Electron-Ion Recombination in an Argon Plasma
1967	Holmes	Ronald	A. Chapman	Condensation of a Dielectric Vapor in the Presence of a Non-Uniform Electric Field
1967	Hull	David	A. Miele	Two-Dimensional, Hypersonic Wings of Maximum Lift-to-Drag Ratio
1967	Ishibachi	Toyoaki	M. L. Rudee	Some Contributions to the Theory and Application of Diffuse X-ray Diffraction for the Measurement of Short-Range-Order in Alloy Single Crystals
1967	Leach	James	T. W. Leland	Molecular Structure Corrections for Application of the theory of Corresponding States to Non-Spherical Pure Fluids and Mixtures
1967	Lopez	Louis	A. Chapman	Steady-State Thermal Design of Space Radiators
1967	Lusty	Arthur	A. Miele	Hypersonic Minimum Drag Bodies of Given Lift under Various Geometric Constraints
1967	Ried	Robert	F. A. Wierum	Equations of Change for a Photon Gas and Their Correspondence with Maxwell's Equations
1967	Vermeulen	Peter	F. A. Wierum	The Application of Radio Frequency Electromagnetic Fields to Heat and Control the State of a Flowing Plasma
1967	Whitmire	Larry	F. R. Brotzen	The Effects of Impurities on the Plastic Deformation of Molybdenum Single Crystals
1966	Bertin	John	F. A. Wierum	Test Time Limitation and Property Variations Induced by a Thick, Laminar Boundary Layer in a Circular Shock Tube
1966	Hsu	Feng-Hsiang	P. R. Paslay	The Influences of Mechanical Loads on the Form of a Growing Elastic Body
1966	Mayersak	Joseph	H. K. Beckmann	Prediction of the Phase Shift in the Low Frequency Motion Resposnse of Vessels to Irregular Seas

1966	Russell	Lynn	A. Chapman	Thermal Analysis of Space Radiators
1966	Wells	Curtis	H. K. Beckmann	
1966	Willis	Noel	A. Chapman	Similar Solutions for Unsteady Flow of a Viscous Incompressible Fluid in an Elastic Tube
1965	Hartman	David	J. M. Roberts	Analysis of Three Fluid, Cross Flow Heat Exchanges
1965	Wood	Donald	P. R. Paslay	The Influence of Solute Atom Additions and Temperature upon the Damping and Yield Phenomena in Magnesium Single Crystals
1964	Peterman	David	A. Chapman	Incipient Motion of a Spherical Body Suspended in a Bingham Material
1963	Youngblood	James	F. R. Brotzen	An Experimental Investigation of Heat Transfer and Drag for a Flat Plate in a High Energy, Rarefied Flow at High Mach Number
1962	Wierum	Frederic		Plastic Deformation of Molybdenum Single Crystals in Direct Shear
1960	Blenkarn	Kenneth	J. C. Wilhoit	Prandtl-Meyer Expansion of an Ionizing Monatomic Gas
1960	Cheatham	John		Fourier Integral Solutions to Radially Symmetric Elasticity Problems
				The Use of Boussinesq-Papkovich Stress Functions to Determine the Stresses around the Bottom of a Cylindrical Cavity