

**Caltech - CUREE Symposium  
in Honor of  
Wilfred Iwan  
Marina del Rey, California  
October 19, 2005**

1961 "Generalized Approach to the Large Velocity Limit"  
1961 "The Dynamic Response of Bilinear Hysteretic Systems Under Analysis for Systems Containing Coulomb Damping"  
1961 "The Dynamic Response of the One-Degree-of-Freedom Bilinear Hysteretic System"  
1961 "The Steady-State Response of a Two-Degree-of-Freedom Bilinear Hysteretic System"  
1962 "The Steady-State Response of the Double Bilinear Hysteretic System"  
1966 "A Distributed Element Model for Hysteretic and Its Steady-State Dynamic Response"  
1967 "On a Class of Models for the Yielding Behavior of Composites and Composite Systems"  
1968 "Response of the Bilinear Hysteretic System to Stationary Random Excitation"  
1968 "Response of Multi-Degree-of-Freedom Yielding Systems"  
1968 "Steady-State Dynamic Response of a Limited Slip System"  
1969 "The Distributed-Element Concept of Hysteretic Modeling and Its Application to Transient Response Problems"  
1969 "Applications of an Equivalent System Approach to Dissipative Dynamical Systems"  
1969 "On Defining Equivalent Systems for Certain Ordinary Non-Linear Differential Equations"  
1970 "On the Nature of Ultraharmonic Oscillations in Yielding Systems"  
1970 "On the Steady-State Response of a Two-Degree-of-Freedom System with Continuous Hysteretic Nonlinearity"  
1970 "Steady-State Response of Yielding Systems to Stationary Random Excitation"  
1971 "Statistical Linearization for Non-Linear Systems"  
1971 "The San Fernando Earthquake - One of the Most Important in History"  
1971 "Earthquake Effects on Offlites"  
1972 "On the Validity of Equation Difference Minimization Techniques"  
1972 "The Merit of Different Error Minimization Criteria in Approximate Analysis"  
1972 "The Dynamic Response of Suspended Underwater Systems"  
1972 "Calculation of Correlation Matrices of Linear Systems Subjected to Non-White Excitation"  
1972 "Application of Statistical Linearization Techniques to Non-Linear Multi-Degree-of-Freedom Systems"  
1972 "On the Response of a Two-Degree-of-Freedom Rigid Disk with a Moving Massive Load"  
1973 "A Model for the Dynamic Analysis of Deteriorating Systems"  
1973 "The Response of an Elastic Disk with a Moving Mass System"  
1973 "A Generalization of the Concept of Equivalent Linearization"  
1973 "Galloping Oscillation of Hysteretic Structures"  
1973 "The Transient and Steady-State Response of a Hereditary System"  
1973 "On the Response of an Elastically Supported Rigid Disk with a Moving Massive Load"  
1974 "A Model for Vortex Induced Oscillation of Structures"  
1974 "The Galloping Response of a Two-Degree-of-Freedom System"  
1974 "Application of Nonlinear Analysis Techniques"  
1974 "Applied Mechanics in Earthquake Engineering"  
1974 "Proceedings Third National Meeting of the Universities Council for Earthquake Engineering Research" (editor)  
1975 "Earthquake Resistance of Public Utility Systems"  
1975 "The Vortex Induced Oscillation of Elastic Structural Elements"  
1976 "Properties of the Solutions of a Class of Dynamical Hereditary Systems"  
1976 "Proceedings Fourth National Meeting of the Universities Council for Earthquake Engineering Research" (editor)  
1976 "The Stability of a Spinning Elastic Disk with a Transverse Load System"  
1976 "The Earthquake Design and Analysis of Equipment Isolation Systems"  
1977 "The Response of Simple Stiffness Degrading Structures"  
1977 "Predicting the Earthquake Response of Resiliently Mounted Equipment with Motion Limiting Constraints"  
1977 "The Earthquake Response of Hysteretic Structures"  
1977 "The Steady-State Response of Systems with Spatially Localized Non-Linearity"  
1978 "The Earthquake Design and Analysis of Equipment Isolation Systems"  
1978 "The Peak Harmonic Response of Locally Non-Linear Systems"  
1978 "Response Envelope Statistics for Non-Linear Oscillators with Random Excitation"  
1978 "On the Existence and Uniqueness of Solutions Generated by Equivalent Linearization"  
1978 "Computational Aspects for Random Vibration Analysis"  
1978 "The Earthquake Response of Strongly Deteriorating Systems Including Gravity Effects"  
1978 "Strong-Motion Earthquake Instrument Arrays"  
1978 "Estimating the Earthquake Response of Simple Hysteretic Structures"  
1979 "The Effective Period and Damping of a Class of Hysteretic Structures"  
1979 "Harmonic Analysis of Dynamic Systems with Non-Symmetric Nonlinearities"  
1979 "Some Observations on the Effective Period and Damping of Randomly Excited Yielding Systems"  
1979 "The Deployment of Strong-Motion Earthquake Instrument Arrays"  
1979 "Instrument Arrays for Strong Ground Motion Studies"  
1979 "New Developments in Design for Seismic Areas"  
1980 "Optics in Adverse Environments"  
1980 "Equivalent Linearization for Systems Subjected to Nonstationary Random Excitation"  
1980 "International Strong Motion Network Developments"  
1980 "Report on the International Workshop on Strong-Motion Earthquake Instrument Arrays"  
1980 "A Statistical Technique for Relating Earthquake Time Histories and Response Spectra"  
1980 "Estimating Inelastic Response Spectra from Elastic Spectra"  
1980 "A Linearization Scheme for Hysteretic Systems Subjected to Random Excitation"  
1980 "Some Issues in the Seismic Design of Nuclear Power-Plant Facilities"  
1980 "Proceedings Sixth National Meeting of the Universities Council for Earthquake Engineering Research" (editor)  
1981 "U.S. Strong-Motion Earthquake Instrumentation"  
1981 "The Natural Frequencies and Mode Shapes of Cables with Attached Masses"  
1981 "On the Formulation of Strain-Space Plasticity with Multiple Loading Surfaces"  
1981 "The Vortex Induced Oscillation of Non-Uniform Structural Systems"  
1982 "USA-PRC Cooperative Project on Strong Ground Motion"  
1983 "Computational Aspects of Strain-Space Plasticity"  
1983 "A New Approach to the First Passage Problem in Random Vibration"  
1983 "Equivalent Linearization for Continuous Dynamical Systems"  
1983 "Modal Interference in Vortex-Induced Oscillation of Cables"  
1983 "Mitigating Seismic Losses to Computer Facilities"  
1984 "An Alternative Approach to the Random Response of Bilinear Hysteretic Systems."  
1984 "Hydrodynamic Pressure on Short-Length Gravity Dams"  
1984 "Strong-Motion Earthquake Measurement Using a Digital Accelerograph"  
1984 "Earthquake Response of Short-Length Gravity Dams"  
1984 "Oscillations of a Self-Excited, Nonlinear System"  
1984 "The US-China Cooperative Strong Ground Motion Project"  
1984 "Characteristics of Digital Strong-Motion Accelerographs"  
1984 "NAIFREQ Users Manual - A FORTRAN IV Program for Computing Natural Frequencies, Mode Shapes, and Drag Coefficients for Taut Strimming Cables with Attached Masses and Spring-Mass Combinations"  
1984 "Earthquake Response of Short-Length Gravity Dams"  
1985 "The Effect of Duration on the Reliability of Structures Subjected to Earthquakes"  
1985 "Observations on Recovery and Reconstruction Following the Coalinga Earthquake of May 2, 1983"  
1985 "On the Non-Stationary Response of Stochastically Excited Secondary Systems"  
1985 "Vortex Induced Oscillations of Structures in Water"  
1985 "A Model for System Identification of Degrading Structures"  
1985 "Some Observations on Strong Motion Earthquake Measurement Using a Digital Accelerograph"  
1985 "Dynamic Analysis of Short Length Gravity Dams"  
1986 "Vortex-Induced Oscillation of Structures"  
1986 "Some Factors Affecting Earthquake Recovery and Reconstruction"  
1986 "On the Modeling of a Class of Deteriorating Structures Subjected to Severe Earthquake Loading"  
1986 "Strain-Space Constitutive Model for Clay Soils"  
1987 "Acquisition and Analysis of Strong Ground Motion Data - A Selective Review"  
1987 "The Stochastic Response of Strongly Yielding Systems"  
1987 "Nonlinear System Identification Based on Modeling of Restoring Force Behavior"  
1987 "Identification of Hysteretic Structural Behavior from Strong Motion Accelerograms"  
1987 "Some Observations on Data Compression for Digital Strong-Motion Accelerograms"  
1987 "The Stochastic Response of Strongly Nonlinear Systems with Coulomb Damping Elements"  
1987 "Some Observations on the Random Response of an Elasto-Plastic System"  
1987 "On the Vortex-Induced Oscillation of Long Structural Elements"  
1987 "Some Observations on the Random Response of the Damage of Structures Subjected to Earthquake Excitation"  
1988 "The California Earthquake Program on Engineering Education"  
1988 "Identification of Hysteretic Behavior from Strong-Motion Accelerograms"  
1988 "Some Observations on the Measurement, Past Accomplishments and Future Directions"  
1988 "Comments to the Special Theme Session on Seismic Probabilistic Safety Assessment of Structural Systems"  
1988 "Comments to the Special Theme Session on Prediction of Strong Ground Motion"  
1988 "Explicit Solutions for the Response of Simple Systems Subjected to Nonstationary Random Excitation"  
1988 "Proceedings of the International American Workshop on Strong-Motion Measurements" (editor)  
1989 "The Stochastic Response of Strongly Nonlinear Systems with Coulomb Damping Elements"  
1989 "Some Observations on the Random Response of a Widely Used Hysteretic Model in Structural Dynamics"  
1989 "Some Observations on the Steady-State and Nonstationary Response of Systems under Combined Parametric and External Excitations"  
1990 "Modal Parameters for Masonry Structures through System Identification Techniques"  
1990 "Response of a Coulomb System to Stochastic Excitation"  
1990 "Identification of Hysteretic Structures"  
1990 "On the Identification of Nonlinear Systems Including Model Uncertainty"  
1990 "Some Observations on Active Control Algorithms"  
1990 "Some Observations on the Dynamic Response of Linear Systems under Correlated Parametric and External Excitations"  
1991 "Dynamic Figures of Merit for the Design of Gas-Lubricated Slider Bearings"  
1991 "Response Variability in Structural Dynamics"  
1991 "Response of Systems with Uncertain Parameters to Stochastic Excitation"  
1991 "The Use of Active Control Algorithms in Vibration Suppression"  
1991 "An Experimental Study of the Active Control of a Building Model"  
1991 "Nonstationary Response of Linear Systems under Uncorrelated Parametric and External Excitations"  
1991 "A Single Mode Method for the Analysis and Identification of Nonlinear MDOF Systems"  
1992 "Nonstationary Equivalent Linearization of Nonlinear Continuous Systems"  
1992 "Reliability Problems of Active Control Algorithms Caused by Time Delay"  
1992 "A New Approach to Analyzing the Earthquake Response of Structural Systems with Parameter Uncertainties"  
1992 "A Technical Review of Modern Strong Motion Accelerographs"  
1992 "Stochastic Response of a Caster Mounted System"  
1993 "Findings of the International Workshop on Seismic Design and Reassessment of Offshore Structures"  
1993 "Coordinated Structural Control Research Involving CUREE Member Institutions"  
1993 "Hong Kong Full-Scale Structural Control Initiative"  
1993 "A Reliability-Based Approach to Seismic Reassessment of Offshore Platforms"  
1994 "International Full-Scale Test Facility for Structural Control"  
1994 "Response Control of Structural Systems Using Active Interface Damping"  
1994 "Important Near-Field Ground Motion Data from the Landers Earthquake"  
1994 "Near-Field Considerations in Specification of Seismic Design Motions for Structures"  
1995 "On the Dynamic Response of Nonlinear Systems with Parameter Uncertainties"  
1995 "Seismic Design and Performance of Pipelines"  
1995 "Drift Demand Spectra for Selected Northridge Sites"  
1996 "Implications of Measured Near-Field Ground Motion on Structural Response"  
1996 "Drift Spectrum: Measure of Demand for Earthquake Ground Motions"  
1996 "The Use of Semi-Actively Controlled Interactions for Earthquake Response Control of Structures"  
1996 "The Drift Demand Spectrum and its Application to Structural Design and Analysis"  
1996 "New Developments in Active Interaction Control"  
1996 "A Collection of Processed Near-Field Earthquake Accelerograms with Response and Drift Spectra"  
1996 "A Semi-Active Damping Brace System"  
1997 "Approximate Methods on Nonlinear Modes Calculations"  
1997 "Modal Identification of Nonlinear Systems"  
1997 "Seismic Margins for Nuclear Power Plant Piping Systems"  
1998 "The Shear-Drift Demand Spectrum: Implications for Earthquake Resistant Design"  
1998 "A Comparison of Control Algorithms for Active Interaction Control of Civil Structures"  
1999 "International Full-Scale Test Facility for Structural Control"  
1999 "Implications of Near-Fault Ground Motion for Structural Design"  
1999 "Evaluation of the Effects of Near-Source Ground Motions"  
2000 "Fundamental Issues in Seismic Design for Near-Field Ground Motions"  
2000 "Protecting Base-Isolated Structures from Near-Field Ground Motion by Tuned Interaction Damper"  
2000 "Active Interaction Control of Tall Buildings Subjected to Near-Field Ground Motions"  
2000 "Control of a Civil Structure using an Electric Machine with Dual Active-Semistive Capability"  
2000 "Active Interaction Control of Civil Structures Part I: SDOF Systems"  
2000 "Active Interaction Control of Civil Structures Part II: MDOF Systems"  
2000 "A Study of the Accuracy of the Capacity Spectrum Method in Engineering Analysis"  
2000 "Important Features of the Response of Inelastic Structures to Near-Field Ground Motion"  
2001 "A Study of the Accuracy of the Capacity Spectrum Method in Engineering Analysis"  
2002 "Structural Performance Evaluation Using Real-time Measurement of Hysteretic Behavior"  
2002 "Structural Response Control Using Active Interaction Between Internal Elements"  
2002 "R-SHAPE: A Real-Time Structural Health and Performance Evaluation System"  
2002 "Active Interaction Control of Tall Buildings Subjected to Near-Field Ground Motions"  
2002 "Protecting Base-Isolated Structures from Near-Field Ground Motion by Tuned Interaction Damper"  
2002 "Active interaction control of civil structures. Part II: SDOF systems"  
2002 "A Parametric Study of the Seismic Margins of Piping Components"  
2002 "The Use of Equivalent Linearization in Performance Based Engineering"  
2003 "Control of a civil structure using an electric machine with semistive capability"  
2003 "Health and performance evaluation using real-time hysteretic behavior"  
2003 "Robustness of predominant direction of near source ground motions and its utilization in port planning"  
2004 "Fifty Years of Progress in Strong-Motion Monitoring: A Personal Perspective"  
2004 "Accomplishments and Opportunities in Strong-Motion Observations"

