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Giancarlo Genta



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Advanced Structural Dynamics and Active Control of Structures Wodek Gawronski, 2007-06-14 Science is for those who learn poetry for those who know Joseph Roux This book is a continuation of my previous book Dynamics and Control of Structures 44 The expanded book includes three additional chapters and an additional appendix Chapter 3 Special Models Chapter 8 Modal Actuators and Sensors and Chapter 9 System Identification Other chapters have been significantly revised and supplemented with new topics including discrete time models of structures limited time and frequency grammians and reduction also balanced modal models simultaneous placement of sensors and actuators and structural damage detection The appendices have also been updated and expanded Appendix A consists of thirteen new Matlab programs Appendix B is a new addition and includes eleven Matlab programs that solve examples from each chapter In Appendix C model data are given Several books on structural dynamics and control have been published Meirovitch's textbook 108 covers methods of structural dynamics virtual work d'Alembert's principle Hamilton's principle Lagrange's and Hamilton's equations and modal analysis of structures and control pole placement methods LQG design and modal control Ewins's book 33 presents methods of modal testing of structures Natke's book 111 on structural identification also contains excellent material on structural dynamics Fuller Elliot and Nelson 40 cover problems of structural active control and structural acoustic control *Sensors and Instrumentation, Volume 5* Evro Wee Sit, 2025-08-07 Sensors and Instrumentation Volume 5 Proceedings of the 34th IMAC A Conference and Exposition on Dynamics of Multiphysical Systems From Active Materials to Vibroacoustics 2016 the fifth volume of ten from the Conference brings together contributions to this important area of research and engineering The collection presents early findings and case studies on fundamental and applied aspects of Structural Dynamics including papers on Experimental Techniques Smart Sensing Rotational Effects Dynamic Calibration Systems Sensing Technologies Modal Transducers Novel Excitation Methods Twelve Lectures on Structural Dynamics André Preumont, 2014-07-08 This text addresses the modeling of vibrating systems with the perspective of finding the model of minimum complexity which accounts for the physics of the phenomena at play The first half of the book Ch 1-6 deals with the dynamics of discrete and continuous mechanical systems the classical approach emphasizes the use of Lagrange's equations The second half of the book Ch 7-12 deals with more advanced topics rarely encountered in the existing literature seismic excitation random vibration including fatigue rotor dynamics vibration isolation and dynamic vibration absorbers the final chapter is an introduction to active control of vibrations The first part of this text may be used as a one semester course for 3rd year students in Mechanical Aerospace or Civil Engineering The second part of the text is intended for graduate classes A set of problems is provided at the end of every chapter The author has a 35 years experience in various aspects of Structural dynamics both in industry nuclear and aerospace and in academia he was one of the pioneers in the field of active structures He is the author of several books on random vibration active structures and structural control **Design of Optimal**

Feedback for Structural Control Ido Halperin, Grigory Agranovich, Yuri Ribakov, 2021-06-30 Structural control is an approach aimed at the suppressing unwanted dynamic phenomena in civil structures. It proposes the use of methods and tools from control theory for the analysis and manipulation of a structure's dynamic behavior with emphasis on suppression of seismic and wind responses. This book addresses problems in optimal structural control. Its goal is to provide solutions and techniques for these problems by using optimal control theory. Thus it deals with the solution of optimal control design problems related to passive and semi active controlled structures. The formulated problems consider constraints and excitations which are common in structural control. Optimal control theory is used in order to solve these problems in a rigorous manner. Even though there are many works in this field none comprise optimization techniques with firm theoretical background that address the solution of passive and semi active structural control design problems. The book begins with a discussion on models which are commonly used for civil structures and control actuators. Modern theoretical notions such as dissipativity and passivity of dynamic systems are discussed in context of the addressed problems. Optimal control theory and suitable successive methods are reviewed. Novel solutions for optimal passive and semi active control design problems are derived based on firm theoretical foundations. These results are verified by numerical simulations of typical civil structures which are subjected to different types of dynamic excitations.

Dynamics of Rotating Systems Giancarlo Genta, 2007-01-04 The aim of the book is to give an up to date review of rotor dynamics dealing with basic topics as well as a number of specialized topics usually available only in journal articles. Part I deals with the classical topics of rotor dynamics: the dynamic behavior of linear steady state rotating machines, simple models as well as systems with many degrees of freedom obtained from finite element models. Part II advanced rotor dynamics deals with some specialized topics on rotors, bearings, discs and blades.

Modeling and Control of Antennas and Telescopes Wodek Gawronski, 2008-07-11 Mechanical engineering and engineering discipline born of the needs of the industrial revolution is once again asked to do its substantial share in the call for industrial renewal. The general call is urgent as we face profound issues of productivity and competitiveness that require engineering solutions among others. The Mechanical Engineering Series is a series featuring graduate texts and research monographs intended to address the need for information in contemporary areas of mechanical engineering. The series is conceived as a comprehensive one that covers a broad range of concentrations important to mechanical engineering graduate education and research. We are fortunate to have a distinguished roster of series editors each an expert in one of the areas of concentration. The names of the series editors are listed on page vi of this volume. The areas of concentration are applied mechanics, biomechanics, computational mechanics, dynamic systems and control, energetics, mechanics of materials, processing, thermal science and tribology. Preface This book is based on my experience with the control systems of antennas and radiotelescopes. Overwhelmingly it is based on experience with the NASA Deep Space Network DSN antennas. It includes modeling the antennas, developing control algorithms, field testing system identi-

cation performance evaluation and 1 troubleshooting My previous book emphasized the theoretical aspects of antenna control engineering while this one describes the application part of the antenna control engineering **Vibration**

Dynamics and Control Giancarlo Genta, 2008-12-17 Mechanical engineering and engineering discipline born of the needs of the industrial revolution is once again asked to do its substantial share in the call for industrial renewal The general call is urgent as we face profound issues of productivity and competitiveness that require engineering solutions among others The Mechanical Engineering Series is a series of tutoring graduate texts and research monographs intended to address the need for information in contemporary areas of mechanical engineering The series is conceived as a comprehensive one that covers a broad range of concentrations important to mechanical engineering graduate education and research We are fortunate to have a distinguished roster of series editors each an expert in one of the areas of concentration The names of the series editors are listed on page vi of this volume The areas of concentration are applied mechanics biomechanics computational mechanics dynamic systems and control energetics mechanics of materials processing thermal science and tribology Preface

After 15 years since the publication of *Vibration of Structures and Machines* and three subsequent editions a deep reorganization and updating of the material was felt necessary This new book on the subject of Vibration dynamics and control is organized in a larger number of shorter chapters hoping that this can be helpful to the reader New material has been added and many points have been updated A larger number of examples and of exercises have been included **Intermediate Dynamics**

R.A. Howland, 2006-01-27 As the name implies *Intermediate Dynamics A Linear Algebraic Approach* views intermediate dynamics Newtonian 3 D rigid body dynamics and analytical mechanics from the perspective of the mathematical field This is particularly useful in the former the inertia matrix can be determined through simple translation via the Parallel Axis Theorem and rotation of axes using rotation matrices The inertia matrix can then be determined for simple bodies from tabulated moments of inertia in the principal axes even for bodies whose moments of inertia can be found only numerically this procedure allows the inertia tensor to be expressed in arbitrary axes something particularly important in the analysis of machines where different bodies principal axes are virtually never parallel To understand these principal axes in which the real symmetric inertia tensor assumes a diagonalized normal form virtually all of Linear Algebra comes into play Thus the mathematical field is first reviewed in a rigorous but easy to visualize manner 3 D rigid body dynamics then become a mere application of the mathematics Finally analytical mechanics both Lagrangian and Hamiltonian formulations is developed where linear algebra becomes central in linear independence of the coordinate differentials as well as in determination of the conjugate momenta Features include A general uniform approach applicable to machines as well as single rigid bodies Complete proofs of all mathematical material Similarly there are over 100 detailed examples giving not only the results but all intermediate calculations An emphasis on integrals of the motion in the Newtonian dynamics Development of the Analytical Mechanics based on Virtual Work rather than Variational Calculus both making the presentation more economical

conceptually and the resulting principles able to treat both conservative and non conservative systems **Vehicle Dynamics and Control** Rajesh Rajamani, 2006-06-04 Mechanical engineering and engineering discipline born of the needs of the industrial revolution is once again asked to do its substantial share in the call for industrial renewal The general call is urgent as we face profound issues of productivity and competitiveness that require engineering solutions among others The Mechanical Engineering Series is a series featuring graduate texts and research monographs intended to address the need for information in contemporary areas of mechanical engineering The series is conceived as a comprehensive one that covers a broad range of concentrations important to mechanical engineering graduate education and research We are fortunate to have a distinguished roster of consulting editors each an expert in one of the areas of concentration The names of the consulting editors are listed on page vi of this volume The areas of concentration are applied mechanics biomechanics computational mechanics dynamic systems and control energetics mechanics of materials processing thermal science and tribology As a research advisor to graduate students working on automotive projects I have frequently felt the need for a textbook that summarizes common vehicle control systems and the dynamic models used in the development of these control systems While a few different textbooks on ground vehicle dynamics are already available in the market they do not satisfy all the needs of a control systems engineer **Applied Plasticity, Second Edition** Jagabandhu Chakrabarty, 2010-07-07 Intended for graduate students in mechanical civil or structural engineering or in applied mechanics this text covers advanced topics in plasticity that have thus far been accessible only in review articles widely scattered through the literature Practicing engineers will thus also find it a useful reference This new edition will be completely updated beginning with the fundamentals of the mathematical theory of plasticity presented in sufficient detail to make the text self sufficient The discussion then turns to the theory of plastic stress and its applications to structural analysis and sheet metal forming This is followed by treatments of axially symmetrical systems and some three dimensional problems of the plastic behavior of plates and shells discussed mainly from the point of view of limit analysis and of the plasticity of metals with fully developed orthotropic anisotropy and the plastic behavior of anisotropic sheets The generalized tangent modulus theory of buckling in the plastic range for columns plates and shells is treated from the point of view of the bifurcation phenomenon The concluding chapter deals with a wide range of topics in dynamic plasticity including wave propagation armor penetration and structural impact in the plastic range This new edition includes a full chapter on the Finite Element Method which appeared in the previous version as an appendix as well as a large number of homework problems for each chapter A solutions manual is available for professors

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