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Optimal Control of Mechanical Oscillations



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Optimal Control Of Mechanical Oscillations

Francis C. Moon



Optimal Control Of Mechanical Oscillations:

Optimal Control of Mechanical Oscillations Agnessa Kovaleva,2013-04-17 This book deals with two aspects of the optimal control of oscillatory systems the initiation of optimal oscillatory regimes and possibilities of the control for random disturbances The main content of the book is based on some assertions of the optimal control theory and the disturbance theory Informations necessary for the understanding are given in the appendix All the theoretical propositions are illustrated by examples with exact mechanical context Since the book mainly contains mathematical foundations applications are not limited to the given examples

Dynamics of Mechanical Systems with Coulomb Friction Le Xuan Anh,2012-12-06 This book addresses the general theory of motion of mechanical systems with Coulomb friction In particular the book focuses on the following specific problems derivation of the equations of motion Painleve s paradoxes tangential impact and dynamic seizure and frictional self excited oscillations In addition to the theoretical results the book contains a detailed description of experiments that show that in general the friction force at the instant of transition to motion is determined by the rate of tangential load and does not depend on the duration of the previous contact These results are used to develop the theory of frictional self excited oscillations A number of industrially relevant mechanisms are considered including the Painleve Klein scheme epicyclic mechanisms crank mechanisms gear transmission the link mechanism of a planing machine and the slider of metal cutting machine tools The book is intended for researchers engineers and students in mechanical engineering

Models and Phenomena in Fracture Mechanics Leonid I. Slepyan,2012-11-07 Modern concepts of fracture mechanics are presented consecutively Homogeneous and structured models where microstructure plays an essential role are considered for fracture and phase transition Firstly one dimensional models are comprehensively studied allowing one to retrace the main phenomena without technical difficulties More realistic models are then used as linear and nonlinear elastic mediums such as elastic plates with crack closure viscoelastic discrete lattices chains and cohesive zone models Also considered are crack origination equilibrium slow and fast growth Sub and super critical crack speed regimes and transition from one regime to another are studied Fourier transform and related topics including a version of the Wiener Hopf technique dealing with originals are presented as well as required topics from wave theory This book is targeted at researchers of materials and structures also at lecturers and advanced students

Resonant Robotic Systems V. I. Babitsky,Alexander Shipilov,2012-09-22 Especially designed as self sustaining oscillating systems resonant robotic systems use the natural modes of oscillation of electromechanical modules for their movements In fact manipulator systems built on these principles demonstrate record breaking characteristics in performance The authors summarize the results and experience of research on and development of resonant robotic systems For the readers convenience a presentation of design concepts is followed by solutions to new dynamical and control problems The book is intended for designers researchers and graduate students

Mechanics of Non-Homogeneous and Anisotropic Foundations B. Grigori Muravskii,2012-12-06 Although realistic soil and

rock foundations reveal noticeable deviations in their properties from homogeneity and isotropy the model of the homogeneous isotropic elastic half space is widely used when studying static and dynamic interactions between a deformable foundation and structures This is explained by significant mathematical difficulties inherent in problems concerning mechanics of anisotropic and heterogeneous elastic bodies Solving the basic static and dynamic problems for heterogeneous and anisotropic half spaces such as different contact problems and problems of constructing Green's functions has become possible in the last few decades due to the development of computer engineering techniques and numerical methods This book contains the results of investigations in the area of statics and dynamics of heterogeneous and anisotropic foundations carried out by the author in the last five years while working in the Faculty of Civil Engineering at Technion Israel Institute of Technology The book is directed at engineers and scientists in the areas of soil mechanics soil structures interaction seismology and geophysics Some characteristic features of the book are i Constructing Chap I solutions in a general form for the heterogeneous in the depth direction transversely isotropic elastic half space subjected to different loadings harmonic in time Characteristics of the given half space have an influence on functions of depth z and parameter k of Hankel's transforms which are determined from a system of ordinary differential equations

Controllability of Dynamic Systems Ara S. Avetisyan, Asatur Zh. Khurshudyan, 2018-04-03 The book is about the possibilities of involvement of the well known Green's function method in exact or approximate controllability analysis for dynamic systems Due to existing extensions of the Green's function notion to nonlinear systems the approach developed here is valid for systems with both linear and nonlinear dynamics The book offers a number of particular examples covering specific issues that make the controllability analysis sophisticated such as coordinate dependent characteristics point sources unbounded domains higher dimensions and specific nonlinearities It also offers extensive numerical analysis which reveals both advantages and drawbacks of the approach As such the book will be of interest to researchers interested in the theory and practice of control as well as PhD and Master's students

Advanced Theory of Mechanisms and Machines M.Z. Kolovsky, A.N. Evgrafov, Yu.A. Semenov, A.V. Slousch, 2012-09-03 This book is based on a lecture course delivered by the authors over a period of many years to the students in mechanics at the St Petersburg State Technical University the former Leningrad Polytechnic Institute The material differs from numerous traditional text books on Theory of Machines and Mechanisms through a more profound elaboration of the methods of structural geometric kinematic and dynamic analysis of mechanisms and machines consisting in both the development of well known methods and the creation of new ones that take into account the needs of modern machine building and the potential of modern computers The structural analysis of mechanisms is based on a new definition of structural group which makes it possible to consider closed structures that cannot be reduced to linkages of Assur groups The methods of geometric analysis are adapted to the analysis of planar and spatial mechanisms with closed structure and several degrees of movability Considerable attention is devoted to the problems of configuration multiplicity of a mechanism

with given input coordinates as well as to the problems of distinguishing and removing singular positions which is of great importance for the design of robot systems These problems are also reflected in the description of the methods of kinematic analysis employed for the investigation of both open tree type structures and closed mechanisms

Mechanics of Periodically Heterogeneous Structures L.I. Manevitch, I.V. Andrianov, V.G. Oshmyan, 2013-11-11 Rigorous presentation of Mathematical Homogenization Theory is the subject of numerous publications This book however is intended to fill the gap in the analytical and numerical performance of the corresponding asymptotic analysis of the static and dynamic behaviors of heterogeneous systems Numerous concrete applications to composite media heterogeneous plates and shells are considered A lot of details numerical results for cell problem solutions calculations of high order terms of asymptotic expansions boundary layer analysis etc are included

Vibration of Strongly Nonlinear Discontinuous Systems V.I. Babitsky, V.L. Krupenin, 2012-11-02 Among the wide diversity of nonlinear mechanical systems it is possible to distinguish a representative class of the systems which may be characterised by the presence of threshold nonlinear positional forces Under particular configurations such systems demonstrate a sudden change in the behaviour of elastic and dissipative forces Mathematical study of such systems involves an analysis of equations of motion containing large factored nonlinear terms which are associated with the above threshold nonlinearity Due to this we distinguish such discontinuous systems from the much wider class of essentially nonlinear systems and define them as strongly nonlinear systems The vibration occurring in strongly nonlinear systems may be characterised by a sudden and abrupt change of the velocity at particular time instants Such a vibration is said to be non smooth The systems most studied from this class are those with relaxation Van Der Pol Andronov Vitt Khaikhin Teodorichik etc 5 65 70 71 98 171 181 where the non smooth vibration usually appears due to the presence of large nonconservative nonlinear forces Equations of motion describing the vibration with relaxation may be written in such a manner that the highest derivative is accompanied by a small parameter The methods of integration of these equations have been developed by Vasilieva and Butuzov 182 Volosov and Morgunov 190 Dorodnitsin 38 Zheleztsov 201 Mischenko and Rozov 115 Pontriagin 137 Tichonov 174 175 etc In a system with threshold nonlinearity the non smooth vibration occurs due to the action of large conservative forces This is distinct from a system with relaxation

Operator Methods for Optimal Control Problems Whei-Mei Lee, 1987-08-31

Vibro-Impact Dynamics Raouf A. Ibrahim, 2009-05-12 Studies of vibro impact dynamics falls into three main categories modeling mapping and applications This text covers the latest in those studies plus selected deterministic and stochastic applications It includes a bibliography exceeding 1 100 references

The Wave Finite Element Method Boris F. Shorr, 2012-12-06 Computational mechanics as a science employed for the numerical modeling of processes in nature and engineering has over the last few decades developed two strands The first concerns the putting of more and more powerful software packages into computational practice using increasingly high performance computers with increasingly large memory The traditional finite element and finite difference approaches are still prevalent

Over the years however researchers have met with new problems their solutions on the basis of traditional methods are at best difficult and at worst impossible to obtain Such problems provided a powerful impetus in the development of the second strand resulting in the development of essentially new approaches for numerical modeling for example meshless methods molecular dynamics neuron networks The current state of the art formed the basis of many papers presented at the Fifth World Congress on Computational Mechanics Vienna 2002 It is within the framework of the second strand that this book has been written Statistical Dynamics and Reliability Theory for Mechanical Structures Valery A. Svetlitsky, 2012-12-06 The monograph text is based on lectures delivered by author during many years for students of Applied Mechanics Department of Bauman Moscow State Technical University The monograph includes also analytical results of scientific research obtained in collaboration with industry Progress in developing new equipment has called for a better understanding of the physical peculiarities pertaining to the action of designed structures in real conditions This is necessary for increasing the accuracy of the analysis and making these structures more reliable It has been found that classical determined perturbations are not principal and that determinism based methods of classical mechanics prove insufficient for understanding and explaining physical effects that arise at the operation of instruments located on moving objects the vibration of rocket engines the motion of a vehicle and the action of wind and seismic loads Therefore the necessity arose for devising a new physical model to analyze these dynamic processes and in particular for creating a new mathematical apparatus that would allow us to take into account non deterministic external excitations The theory of random processes that had been developed well enough as applied to problems of radio engineering and automatic control where the effect produced by random excitations appeared to be commensurable with that of deterministic excitations and where the ignoring of the random excitations would bring about incorrect results became such an apparatus Engineering Vibration Analysis Valery A. Svetlitsky, 2012-11-07 Theory of vibrations belongs to principal subjects needed for training mechanical engineers in technological universities Therefore the basic goal of the monograph Advanced Theory of Vibrations 1 is to help students studying vibration theory for gaining experience in application of this theory for solving particular problems Thus while choosing the problems and methods to solve them the close attention was paid to the applied content of vibration theory The monograph is devoted to systems with a single degree of freedom and systems with a finite number of degrees of freedom In particular problems are formulated associated with determination of frequencies and forms of vibrations study of forced vibrations analysis of both stable and unstable vibrations including those caused by periodic but anharmonic forces The problems of nonlinear vibrations and of vibration stability and those related to seeking probabilistic characteristics for solutions to these problems in the case of random forces are also considered Problems related to parametric vibrations and statistical dynamics of mechanical systems as well as to determination of critical parameters and of dynamic stability are also analyzed As a rule problems presented in the monograph are associated with particular mechanical systems and can be applied for current studies in vibration theory

Allowing for interests of students independently studying theory of vibrations the majority of problems are supplied with either detailed solutions or algorithms of the solutions

IUTAM Symposium on Nonlinear Stochastic Dynamics N. Sri Namachchivaya, Y.K. Lin, 2012-12-06 Non linear stochastic systems are at the center of many engineering disciplines and progress in theoretical research had led to a better understanding of non linear phenomena This book provides information on new fundamental results and their applications which are beginning to appear across the entire spectrum of mechanics The outstanding points of these proceedings are Coherent compendium of the current state of modelling and analysis of non linear stochastic systems from engineering applied mathematics and physics point of view Subject areas include Multiscale phenomena stability and bifurcations control and estimation computational methods and modelling For the Engineering and Physics communities this book will provide first hand information on recent mathematical developments The applied mathematics community will benefit from the modelling and information on various possible applications

IUTAM Symposium on New Applications of Nonlinear and Chaotic Dynamics in Mechanics Francis C. Moon, 2012-12-06 It is two decades since Mitchell Feigenbaum's landmark papers on period doubling and the modern beginnings of what is now called Chaos Theory From the very beginning mechanics has been a central focus for modern nonlinear dynamical systems Fluid structural machine and rigid body dynamics has been a fertile field for nonlinear phenomena and chaos in particular Early experimental evidence for chaotic phenomena in mechanics gave the new chaos theory a mark of credibility importance and relevance that its earlier sister field catastrophe theory did not achieve The fact that mechanics straddles both physics and engineering also meant that mechanics became a pathway for direct application of chaos theory to applied problems So what is new in nonlinear dynamics and mechanics today First the scope of applications in solid mechanics has broadened to cover material processing inelasticity and fracture mechanics In rigid body dynamics more complex systems such as vehicles robotics and controlled machines have come into the purview of nonlinear dynamicists On the mathematics side of nonlinear dynamics it is now recognized that spatio temporal problems hysteretic and time delay problems are the new frontiers in this field Also the term complexity has been added to the lexicon of chaos theory to describe the dynamics of many interacting sub systems which can exhibit self organization and evolution Complexity analysis has gained a foothold in biological and some social sciences as well in fluid and chemical physics

Stability of Elastic Structures N.A. Alfutov, 2013-04-17 The subject discussed in this book is the stability of thin walled elastic systems under static loads The presentation of these problems is based on modern approaches to elastic stability theory Special attention is paid to the formulation of elastic stability criteria to the statement of column plate and shell stability problems to the derivation of basic relationships and to a discussion of the boundaries of the application of analytic relationships The author has tried to avoid arcane nonstandard problems and elaborate and unexpected solutions which bring real pleasure to connoisseurs but confuse students and cause bewilderment to some practical engineers The author has an apprehension that problems which though interesting are

limited in application can divert the reader's attention from the more prosaic but no less sophisticated general problems of stability theory

Numerical Structural Analysis Anatoly Perelmuter, Vladimir Slivker, 2013-11-11 To our sons Mike Andrew Alex who did not inherit their fathers level of interest in applied mechanics but who became sophisticated in software development and in this regard surpassed their parents A P V S Hard times came the god5 got angry Children do not behave themselves and everybody wishes to write a book Ancient Babylonian inscription X Preface Preface to the English Edition The book you are reading is a translation from Russian into English Within a pretty short term this book saw two editions in Russian The authors received in spiring responses from readers that both stimulated our continuing and improving this work and made sure it would not be in vain of us to try to multiply our readers by covering the English speaking engineering community When we prepared the present edition we took into account interests of the Western readers so we had to make some changes to our text published earlier These changes include the following aspects First we excluded a lot of references and discussions regarding Russian engineering codes It seems to us those are of no real interest for Western engineers oriented at Eurocode or national construction design regulations

Mathematical Models in Natural Science and Engineering Juri I. Neimark, 2012-12-06 This book has come into being as a result of the author's lectures on mathematical modelling rendered to the students BS and MS degree holders specializing in applied mathematics and computer science and to post graduate students in exact sciences of the Nizhny Novgorod State University after N Lobatchevsky These lectures are adapted and presented as a single whole about mathematical models and modelling This new course of lectures appeared because the contemporary Russian educational system in applied mathematics rested upon a combination of fundamental and applied mathematics training this way of training oriented students upon solving only the exactly stated mathematical problems and thus there was created a certain estrangement to the most essential stages and sides of real solutions for applied problems such as thinking over and deeply piercing the essence of a specific problem and its mathematical statement This statement embraces simplifications adopted idealizations and creating a mathematical model its correction and matching the results obtained against a real system There also existed another main objective namely to orient university graduates in their future research not only upon purely mathematical issues but also upon comprehending and widely applying mathematics as a universal language of contemporary exact science and mathematical modelling as a powerful means for studying nature engineering and human society

Artificial Intelligence: Concepts, Methodologies, Tools, and Applications Management Association, Information Resources, 2016-12-12 Ongoing advancements in modern technology have led to significant developments in artificial intelligence With the numerous applications available it becomes imperative to conduct research and make further progress in this field Artificial Intelligence Concepts Methodologies Tools and Applications provides a comprehensive overview of the latest breakthroughs and recent progress in artificial intelligence Highlighting relevant technologies uses and techniques across various industries and settings this publication is a pivotal

reference source for researchers professionals academics upper level students and practitioners interested in emerging perspectives in the field of artificial intelligence

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