

MECHANICAL ENGINEERING SERIES

Anthony Lawrence

# Modern Inertial Technology

Navigation, Guidance, and Control

Second Edition



Springer

# Modern Inertial Technology Navigation Guidance And Control Mechanical Engineering Series

**Maasoud Kaviany**



## **Modern Inertial Technology Navigation Guidance And Control Mechanical Engineering Series:**

*Modern Inertial Technology* Anthony Lawrence, 2001-09-27 A description of the inertial technology used for guidance control and navigation discussing in detail the principles operation and design of sensors gyroscopes and accelerometers as well as the advantages and disadvantages of particular systems An engineer with long practical experience in the field the author elucidates such recent developments as fibre optic gyroscopes solid state accelerometers and the global positioning system This will be of interest to researchers and practising engineers involved in systems engineering aeronautics space research and navigation on both land and sea

**Modern Inertial Technology** Anthony Lawrence, 2012-12-06 Mechanical Engineering an engineering discipline borne 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 features 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 on the advisory board each an expert in one of the areas of concentration The names of the consulting editors are listed on the next page 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 I am pleased to present this volume in the Series *Modern Inertial Technology Navigation Guidance and Control* Second Edition by Anthony Lawrence The selection of this volume underscores again the interest of the Mechanical Engineering series to provide our readers with topical monographs as well as graduate texts in a wide variety of fields

**Aerospace Sensors** Alexander Nebylov, 2012-11-20 Modern air and space craft demand a huge variety of sensing elements for detecting and controlling their behavior and operation These sensors often differ significantly from those designed for applications in automobile ship railway and other forms of transportation and those used in industrial chemical medical and other areas This book offers insight into an appropriate selection of these sensors and describes their principles of operation design and achievable performance along with particulars of their construction Drawn from the activities of the International Federation of Automatic Control IFAC especially its Aerospace Technical Committee the book provides details on the majority of sensors for aircraft and many for spacecraft satellites and space probes It is written by an international team of twelve authors representing four countries from Eastern and Western Europe and North America all with considerable experience in aerospace sensor and systems design Highlights include coverage of aerospace vehicle classification specific design criteria and the requirements of onboard systems and sensors reviews of airborne flight parameter sensors weather sensors and collision avoidance devices discussions on the important role of inertial navigation systems INS and separate gyroscopic

sensors for aerospace vehicle navigation and motion control descriptions of engine parameter information collection systems including fuel quantity and consumption sensors pressure pick ups tachometers vibration control and temperature sensors and descriptions and examples of sensor integration

### **Fundamentals of Robotic Mechanical Systems** Jorge

Angeles,2007-09-04 Modern robotics dates from the late 1960s when progress in the development of microprocessors made possible the computer control of a multiaxial manipulator Since then robotics has evolved to connect with many branches of science and engineering and to encompass such diverse fields as computer vision artificial intelligence and speech recognition This book deals with robots such as remote manipulators multifingered hands walking machines flight simulators and machine tools that rely on mechanical systems to perform their tasks It aims to establish the foundations on which the design control and implementation of the underlying mechanical systems are based The treatment assumes familiarity with some calculus linear algebra and elementary mechanics however the elements of rigid body mechanics and of linear transformations are reviewed in the first chapters making the presentation self contained An extensive set of exercises is included Topics covered include kinematics and dynamics of serial manipulators with decoupled architectures trajectory planning determination of the angular velocity and angular acceleration of a rigid body from point data inverse and direct kinematics manipulators dynamics of general parallel manipulators of the platform type and the kinematics and dynamics of rolling robots Since the publication of the previous edition there have been numerous advances in both the applications of robotics including in laparoscopy haptics manufacturing and most notably space exploration as well as in the theoretical aspects for example the proof that Husty's 40th degree polynomial is indeed minimal mentioned as an open question in the previous edition

### **Time-Dependent Fracture Mechanics** Dominique P. Miannay,2012-12-06

Intended for engineers researchers and graduate students dealing with materials science structural design and nondestructive testing and evaluation this book represents a continuation of the author's Fracture Mechanics 1997 It will appeal to a variety of audiences The discussion of design codes and procedures will be of use to practicing engineers particularly in the nuclear aerospace and pipeline industries the extensive bibliography and discussion of recent results will make it a useful reference for academic researchers and graduate students will find the clear explanations and worked examples useful for learning the field The book begins with a general treatment of fracture mechanics in terms of material properties and loading and provides up to date reviews of the ductile brittle transition in steels and of methods for analyzing the risk of fracture It then discusses the dynamics of fracture and creep in homogeneous and isotropic media including discussions of high loading rate characteristics the behavior of stationary cracks in elastic media under stress and the propagation of cracks in elastic media This is followed by an analysis of creep and crack initiation and propagation describing for example the morphology and incubation times of crack initiation and growth and the effects of high temperatures The book concludes with treatments of cycling deformation and fatigue creep fatigue fractures and crack initiation and propagation Problems at the end of each

chapter serve to reinforce and test the student's knowledge and to extend some of the discussions in the text. Solutions to half of the problems are provided.

*Electromechanical Sensors and Actuators* Ilene J. Busch-Vishniac, 2012-12-06 Mechanical engineering, an engineering discipline borne 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 features 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 on the advisory board, each an expert in one of the areas of concentration. The names of the consulting editors are listed on the facing page 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. I am pleased to present this volume in the Series *Electromechanical Sensors and Actuators* by Ilene Busch-Vishniac. The selection of this volume underscores again the interest of the Mechanical Engineering series to provide our readers with topical monographs as well as graduate texts in a wide variety of fields.

*Nonlinear Computational Structural Mechanics* Pierre Ladeveze, 2012-12-06 Mechanical Engineering, an engineering discipline borne 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 features 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 on the advisory board, each an expert in one of the areas of concentration. The names of the consulting editors are listed on the next page 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. Frederick A. Leckie, the series editor for applied mechanics, and I are pleased to present this volume in the Series *Nonlinear Computational Structural Mechanics: New Approaches and Non-Incremental Methods of Calculation* by Pierre Ladeveze. The selection of this volume underscores again the interest of the Mechanical Engineering series to provide our readers with topical monographs as well as graduate texts in a wide variety of fields.

*Principles of Heat Transfer in Porous Media* Maasoud Kaviani, 2012-12-06 Convective heat transfer is the result of fluid flowing between objects of different temperatures. Thus it may be the objective of a process as in refrigeration or it may be an incidental aspect of other processes. This monograph reviews in a concise and unified manner recent contributions to the principles of convective heat transfer for

single and multi phase systems It summarizes the role of the fundamental mechanism discusses the governing differential equations describes approximation schemes and phenomenological models and examines their solutions and applications After a review of the basic physics and thermodynamics the book divides the subject into three parts Part 1 deals with single medium transfer specifically with intraphase transfers in single phase flows and with intramedium transfers in two phase flows Part 2 deals with fluid solid transfer processes both in cases where the interface is small and in cases where it is large as well as liquid liquid transfer processes Part 3 considers three media addressing both liquid solid solid and gas liquid solid systems

**Rotordynamics of Gas-Lubricated Journal Bearing Systems** Krzysztof Czolczynski, 1999-09-24 A discussion of models for the behaviour of gas bearings particularly of the aspects affecting the stability of the system The text begins with a discussion of the mathematical models identifying the stiffness and damping coefficients and describing the behaviour of the models in unstable regions It then turns to apply these results to bearings static characteristics and stability of various rotor systems and an extensive discussion of air rings

*Dynamics and Control of Structures* Wodek K. Gawronski, 2004-07-14 Robots aerospace structures active earthquake damping devices of tall buildings and active sound suppression are examples of the application of structural dynamics and control methods This book addresses the structural dynamics and control problems encountered by mechanical civil and control engineers Many problems presented in this book originated in recent applications in the aerospace industry and have been solved using the approach presented here Dynamics analysis and controller design for flexible structures require a special approach due to the large size of structural models and because flexible structure testing and control typically requires massive instrumentation sensors and actuators But the rapid development of new technologies and the increased power of computers allows for the formulation and solution of engineering problems that seemed to be unapproachable not so very long ago The modal approach was chosen in this book It has a long tradition in structural engineering see e g 84 87 and 26 and is also used in control system analysis e g 93 Its usefulness thoroughly tested does not need extensive justification Both structural testing and analysis give priority to the modal representation due to its compactness simplicity and explicit physical interpretation Also many useful structural properties are properly exposed only in modal coordinates In this book the modal approach preferred by structural engineers is extended into control engineering giving new analytical results and narrowing the gap between structural and control analysis

**Optimal Control Theory for Applications** David G. Hull, 2013-03-09 Mechanical engineering an 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 ii of this volume The areas of concentration are applied mathematics biomechanics computational mechanics dynamic systems and control energetics mechanics of materials processing thermal science and tribology Austin Texas Frederick F Ling Preface Optimization is an area of mathematics that is concerned with finding the best points curves surfaces and so on Best is determined by minimizing some measure of performance subject to equality and inequality constraints Points are constrained by algebraic equations curves are constrained by ordinary differential equations and algebraic equations surfaces are constrained by partial differential equations ordinary differential equations and algebraic equations Applied Plasticity Jagabandhu Chakrabarty,2000-02-23 Mechanical engineering an engineering discipline forged and shaped by 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 features 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 on the advisory board each an expert in one of the areas of concentration The names of the consulting editors are listed on the facing page of this volume The areas of concentration are applied mechanics biomechanics computational mechanics dynamic systems and control energetics mechanics of materials processing production systems thermal science and tribology Fundamentals of Surface Mechanics Frederick F. Ling,W. Michael Lai,Don A. Lucca,2012-08-10 Mechanical engineering an engineering discipline borne 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 features 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 on the advisory board each an expert in one of the areas of concentration The names of the consulting editors are listed on the next page 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 **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 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 Manufacturing Systems: Theory and Practice George Chryssolouris,2006-02-28 Manufacturing Systems Theory and Practice Second Edition provides an overview of manufacturing systems from the ground up It is intended for students at the undergraduate or graduate level who are interested in manufacturing industry practicing engineers who want an overview of the issues and tools used to address problems in manufacturing systems and managers with a technical background who want to become more familiar with manufacturing issues The book has six chapters that have been arranged according to the sequence used when creating and operating a manufacturing system Thus the subjects emphasised are the decision framework for manufacturing the manufacturing processes the manufacturing equipment and machine tools the design for manufacturing and the operation of manufacturing systems The book attempts a compromise between theory and practice in all addressed manufacturing systems issues covering a long spectrum of issues from traditional manufacturing processes to innovative technologies such as Virtual Reality Nanotechnology and Rapid Prototyping **Principles of Convective Heat Transfer** Massoud Kaviani,2013-11-21 Convective heat transfer is the result of fluid flowing between objects of different temperatures Thus it may be the objective of a process as in refrigeration or it may be an incidental aspect of other processes Intended for graduate students and for researchers entering the field this text reviews in a concise and unified manner recent contributions to the principles of convective heat transfer for single and multi phase systems It summarizes the role of the fundamental mechanism and the governing differential equations describes approximation schemes and phenomenological models and examines their solutions and applications After a review of the basic physics and thermodynamics the book divides the subject into three parts Part 1 deals with single medium transfers specifically with intraphase transfers in single phase flows and with intramedium transfers in two phase flows Part 2 deals with fluid solid transfer processes both in cases where the interface is small and in cases where it is large as well as liquid liquid transfer processes Part 3 considers three media addressing both liquid solid solid and gas liquid solid systems The emphasis on the presence multiple phases and on energy conversion mechanisms such as phase changes or chemical reactions will make this text a valuable reference for practicing engineers This new edition has been updated throughout and contains new examples and problems Nonlinear Analysis of Thin-Walled Structures James F. Doyle,2013-03-09 Mechanical engineering an 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 the profound issues of productivity and competitiveness that require engineering solutions among others The Mechanical Engineering Series is a new 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 will cover 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 The areas of concentration are applied mechanics biomechanics computational mechanics dynamic systems and control energetics mechanics of materials processing thermal science and tribology We are pleased to present *Nonlinear Analysis of Thin Walled Structures* by James F Doyle Austin Texas Frederick F Ling Preface This book is concerned with the challenging subject of the nonlinear static dynamic and stability analyses of thin walled structures It carries on from where *Static and Dynamic Analysis of Structures* published by Kluwer 1991 left off that book concentrated on frames and linear analysis while the present book is focused on plated structures nonlinear analysis and a greater emphasis on stability analysis

**Structural Synthesis in Precision Elasticity** Yakov M Tseytlin, 2007-03-20 *Structural Synthesis in Precision Elasticity* reflects the summary of theoretical and experimental studies whose conclusions are effective for optimized structural synthesis in precision elasticity as well as demonstrate a large experience and options in the synthesis production application of precision elastic guides mechanisms correctors transducers instruments and machines The main focus of this book is in the possible simplification of the corresponding analytical apparatus by using kinematical equivalents matrix methods appropriate contours and function expansion with enough accurate minimal polynomials This approach allows for substitution of some known unwieldy formulae and methods that are not convenient for digestible and tractable synthesis The book consists of two main parts The elastic systems functional analysis and structural synthesis methods including effective approximations and references to the history of their development The application and development of precision functional elastic systems at reference and operating conditions including the observation of archives with effective synthesized structures and elements of nanotechnology Each part provides theoretical basics and a large variety of examples and recommendations This book gives theoretical and practical tools to researchers precision machines instruments and miniature systems designers engineers metrologists and engineering students Despite that this book is dedicated to the general problems of the structural synthesis in precision elasticity most of the practical examples and applications are concerned with the measuring systems as the precision is their main goal The author intends to show close connection between the elastic precision structures developed during the 20th century and even before and the new elastic systems for atomic force microscopy and other recently created advanced structures in precision elasticity

**Mastering Calculations in Linear and Nonlinear Mechanics** Pierre Ladevèze, Jean Pierre Pelle, 2004-12-16 This book deals with the management of calculations in linear and nonlinear mechanics Particular attention is given to error estimators and indicators for structural analysis The accent is on the concept of error in constitutive relation An important part of the work is also devoted to the utilization of the error estimators involved in a calculation beginning with the parameters related to the mesh Many of the topics are taken from the most recent research by the authors local error estimators extension of the concept of error in constitutive relation to nonlinear evolution problems

and dynamic problems adaptive improvement of calculations in nonlinear mechanics This work is intended for all those interested in mechanics students researchers and engineers concerned with the construction of models as well as their simulation for industrial purposes

**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 identification 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

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