

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

Jorge Angeles



Modern Inertial Technology Navigation Guidance And Control Mechanical Engineering Series:

Modern Inertial Technology Anthony Lawrence, 2012-12-06 Automatic navigation makes ocean going and flying safer and less expensive Safer because machines are tireless and always vigilant inexpensive because it does not use human navigators who are unavoidably highly trained and thus expensive people What is more unmanned deep space travel would be impossible without automatic navigation Navigation can be automated with the radio systems Loran Omega and the Global Positioning System GPS of earth satellites but its most versatile form is completely self contained and is called inertial navigation It uses gyroscopes and accelerometers inertial sensors to measure the state of motion of the vehicle by noting changes in that state caused by accelerations By knowing the vehicle's starting position and noting the changes in its direction and speed one can keep track of the vehicle's present position Mankind first used this technology in World War II in guided weapons where cost was unimportant only 20-30 years later did it become cheap enough to be used commercially The electronics revolution in which vacuum tubes were replaced by integrated circuits has dramatically altered the field of inertial navigation Early inertial systems used complex mechanical gimbal structures and mechanical gyroscopes with spinning wheels The gimbals allowed the gyroscopes to stabilize a mass called a platform so that it remained in a fixed attitude relative to a chosen coordinate frame even as the vehicle turned around any or all of its three major axes

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 Hurwitz'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

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

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 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 **Nonlinear Computational Structural Mechanics** Pierre Ladeveze, 2012-12-06

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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

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

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 under scores 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

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