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for control engineers optimal control is a tool to design a primal controller which secures system stability and fulfils a certain set of specifications via the optimisation of a specific performance index in this way troublesome trial and error controller tuning procedures are avoided the next step is to assess the possibility of practical implementation and this usually leads to a need to implement some controller trade offs to this end this book aims to construct bridges between conventional parameter optimisation and the methods of optimal control theory optimal control engineering with matlab teaches students efficiently how to apply the well known standard optimal control theory as well as recently developed methods for the practical implementation of optimal controllers for dynamic systems in this book the author uses his experience gained over twenty five years of teaching and supervising graduate and postgraduate students in many engineering specialisations to communicate the essentials of a very important branch of control system theory to a new generation of engineering students

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the principal goal of this volume is to provide thorough knowledge of mathematical modeling and analysis of dynamic systems the author introduces matlab and simulink at the outset and uses them throughout to perform symbolic graphical numerical and simulation tasks the text is accompanied by a cd that contains user defined functions m files that are executable in matlab as well as additional exercises on matlab and simulink applications the author meticulously covers techniques for modeling dynamic systems methods of response analysis and the fundamentals of vibration and control systems each chapter features examples exercises and a summary

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at springer verlag dr thomas ditzinger for his assistance in bringing this book out in its present form finally i would like to thank my brother nicola for preparing most of the line drawings in both editions in this edition i am providing two email addresses for my readers to contact me pkattan tedata net jo and pkattan lsu edu the old email address that appeared in the rst edition was cancelled in 2004 december 2006 peter i kattan prefacetothefirstedition 3 this is a book for people who love nite elements and matlab we will use the popular computer package matlab as a matrix calculator for doing nite element analysis problems will be solved mainly using matlab to carry out the tedious and lengthy matrix calculations in addition to some manual manipulations especially when applying the boundary conditions in particular the steps of the nite element method are emphasized in this book the reader will not nd ready made matlab programsforuseasblackboxes insteadstep by stepsolutionsof niteelementpr lems are examined in detail using matlab

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system simulation techniques with matlab and simulinkcomprehensively explains how to use matlab and simulink to performdynamic systems simulation tasks for engineering andnon engineering applications this book begins with covering the fundamentals of matlabprogramming and applications and the solutions to differentmathematical problems in simulation the fundamentals of simulinkmodelling and simulation are then presented followed by coverageof intermediate level modelling skills and more advanced techniquesin simulink modelling and applications finally the modelling and simulation of engineering andnon engineering systems are presented the areas covered includeelectrical electronic systems mechanical systems pharmacokineticsystems video and image processing systems and discrete eventsystems hardware in the loop simulation and real timeapplication are also discussed key features progressive building of simulation skills using simulink frombasics through to advanced levels with illustrations andexamples wide coverage of simulation topics of applications fromengineering to non engineering systems dedicated chapter on hardware in the loop simulation and realtime control end of chapter exercises a companion website hosting a solution manual and powerpointslides system simulation techniques with matlab and simulink isa suitable textbook for senior undergraduate postgraduate coursescovering modelling and simulation and is also an ideal referencefor researchers and practitioners in industry

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the second edition also features chapters and sections that begin with basic elementary material followed by gradual coverage of more advanced material exercises ranging from simple hand computations to challenging derivations and minor proofs to programming exercises widespread exposure and utilization of matlab an appendix that contains proofs of various theorems and other material

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