

Computer Control Of Machines And Processes

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there has been tremendous growth in the area of kinematics and dynamics of machinery in the past 20 years much of which exists in a large variety of technical papers each requiring its own background for comprehension these new developments can be integrated into the existing body of knowledge so as to provide a logical modern and comprehensive treatise such is the purpose of this book this book offers outstanding coverage of mechanisms and machines

including important information on how to classify and analyze their motions how to synthesize or design them and how to determine their performance when operated as real machines to develop a broad comprehension all the methods of analysis and development common to the literature of the field are used part i of the book begins with an introduction which deals mostly with theory nomenclature notation and methods of analysis serving as an introduction chapter 1 also tells what a mechanism is what it can do how it can be classified and what its limitations are chapters 2 3 and 4 deal with analysis all the various methods of analyzing the motions of mechanisms part ii goes into the engineering problems involving the selection specification design and sizing of mechanisms to accomplish specific motion objectives part iii covers the consequences of the proposed mechanism design in other words having designed a machine by selecting specifying and sizing the various mechanisms which make up the machine we tackle such questions as what happens during the operation of the machine what forces are produced are there any unexpected operating results will the proposed design be satisfactory in all respects

machines have always gone hand in hand with the cultural development of mankind throughout time a book on the history of machines is nothing more than a specific way of bringing light to human events as a whole in order to highlight some significant milestones in the progress of knowledge by a complementary perspective into a general historical overview this book is the result of common efforts and interests by several scholars teachers and students on subjects that are connected with the theory of machines and mechanisms in fact in this book there is a certain teaching aim in addition to a general historical view that is more addressed to the achievements by homo faber than to those by homo sapiens since the proposed history survey has been developed with an engineering approach the brevity of the text added to the fact that the authors are probably not competent to tackle historical studies with the necessary rigor means the content of the book is inevitably incomplete but it nevertheless attempts to fulfil three basic aims first it is hoped that this book may provide a stimulus to promote interest in the study of technical history within a mechanical engineering context few are the countries where anything significant is done in this area which means there is a general lack of knowledge of this common cultural heritage

this book is about the story of modern machines and how they do the world's work we shall see how raw materials such as metals wool and cotton fibers and wood are turned into automobiles ships typewriters fabrics and other useful products our machine age has made this possible for only by machines can these many products be made cheaply and quickly we shall also see how machines are able to do such varied jobs as threshing grain machining engine blocks or multiplying long rows of numbers and later on we shall learn how automation the newest marvel of the machine age teaches machines almost to

think for themselves

the theory of machines or mechanism and machine theory is a basic subject taught in engineering schools to mechanical engineering students this subject lays the foundation on which mechanical engineering design and practice rests with it is also a subject taught when the students have just entered engineering discipline and are yet to formulate basics of mechanical engineering this subject needs a lot of practice in solving engineering problems and there is currently no good book explaining the subject through solved problems this book is written to fill such a void and help the students preparing for examinations it contains in all 336 solved problems several illustrations and 138 additional problems for practice basic theory and background is presented though it is not like a full fledged text book in that sense this book contains 20 chapters the first one giving a historical background on the subject the second chapter deals with planar mechanisms explaining basic concepts of machines kinematic analysis is given in chapter 3 with graphical as well as analytical tools the synthesis of mechanisms is given in chapter 4 additional mechanisms and coupler curve theory is presented in chapter 5 chapter 6 discusses various kinds of cams their analysis and design spur gears helical gears worm gears and bevel gears and gear trains are extensively dealt with in chapters 7 to 9 hydrodynamic thrust and journal bearings long and short bearings are considered in chapter 10 static forces inertia forces and a combined force analysis of machines is considered in chapters 11 to 13 the turning moment and flywheel design is given in chapter 14 chapters 15 and 16 deal with balancing of rotating parts reciprocating parts and four bar linkages force analysis of gears and cams is dealt with in chapter 17 chapter 18 is concerned with mechanisms used in control viz governors and gyroscopes chapters 19 and 20 introduce basic concepts of machine vibrations and critical speeds of machinery a special feature of this book is the availability of three computer aided learning packages for planar mechanisms their analysis and animation for analysis of cams with different followers and dynamics of reciprocating machines balancing and flywheel analysis

the study of the kinematics and dynamics of machines lies at the very core of a mechanical engineering background although tremendous advances have been made in the computational and design tools now available little has changed in the way the subject is presented both in the classroom and in professional references fundamentals of kinematics and dynamics of machines and mechanisms brings the subject alive and current the author's careful integration of mathematica software gives readers a chance to perform symbolic analysis to plot the results and most importantly to animate the motion they get to play with the mechanism parameters and immediately see their effects a cd rom packaged with the book contains mathematica based programs for suggested

design projects as useful as mathematica is however a tool should not interfere with but enhance one's grasp of the concepts and the development of analytical skills the author ensures this with his emphasis on the understanding and application of basic theoretical principles unified approach to the analysis of planar mechanisms and introduction to vibrations and rotordynamics

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