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mechanics of machines is designed for undergraduate courses in kinematics and dynamics of machines it covers the basic concepts of gears gear trains the mechanics of rigid bodies and graphical and analytical kinematic analyses of planar mechanisms in addition the text describes a procedure for designing disc cam mechanisms discusses graphical and analytical force analyses and balancing of planar mechanisms and illustrates common

methods for the synthesis of mechanisms each chapter concludes with a selection of problems of varying length and difficulty si units and us customary units are employed an appendix presents twenty six design projects based on practical real world engineering situations these may be ideally solved using working model software a cd rom included in every copy of this book contains virtual moving models of a wide range of machines including engines meshing gears cam mechanisms intermittent motion mechanisms pumps shaft couplings locks braking systems threaded connections and a synchronizer most of these models are three dimensional and allow the user to highlight a component or process of interest as well as alter both the point of view and zoom during the simulated motion in addition icons in the book s margins enable the reader to readily identify the corresponding files on the cd rom cd rom highlights offers more than 140 files of interactive virtual models and video clips of a diverse assortment of machines and mechanisms contains working model r textbook edition the world s most popular 2d motion software includes flux player vrml software to view virtual models includes the windows based computer program cam design that allow one to design animate and evaluate disc cam mechanisms provides files of scaled diagrams of mechanisms for solving problems using graphical analyses involving velocity acceleration and force a solutions manual 0 19 522212 1 and a cd rom with powerpoint r overheads 0 19 522226 1 are available to adopters

this book introduces machine dynamics an essential competency important for many applications such as designing robots for manufacturing materials handling or the landing gear of an airplane analyzing the motion of a piston in an internal combustion engine or a compressor and designing a mars rover wherever a machine is used for force or power transmission or a mechanism creates a desired motion the methods studied in this book provide the fundamental knowledge needed for optimal design specific sections are provided on different types of mechanisms and conditions that should be met for obtaining a desired performance including kinematic analysis of mechanisms using direct differentiation relative motion kinematic coefficients and instantaneous centers the newton raphson method for solving complex nonlinear position analysis problems is discussed and the determination of dead and limit positions in mechanisms is presented the relation between the angular velocity ratio theorem and the fundamental law of gearing is shown to provide a bridge between the concept of instantaneous centers and analyzing gears gears and gear trains are covered in detail and calculation of gear ratios in fixed axis and planetary gear trains using the rolling contact equations is illustrated finally power and force transmission in machines is covered static and dynamic cases are analyzed and the author shows how the static solutions can provide approximations for the dynamic problems where inertia effects are not significant low inertia and low accelerations application of matrix algebra for solving the system of equations of equilibrium in statics or equations of motion in dynamics is also illustrated because of the importance of balancing in any application involving rotating machinery static and dynamic balancing are analyzed the book concludes with a brief coverage of three dimensional dynamics including euler s equations and gyroscopic effect aimed at engineering students interested in machine dynamics across a range of disciplines the book is also ideal as a reference for practicing

engineers with a good understanding of statics dynamics and matrix algebra

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