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Chapter 13

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Theory of Machines and Mechanisms, Third Edition, is a comprehensive study of rigid-body mechanical systems and provides background for continued study in stress, strength, fatigue, life, modes of failure, lubrication and other advanced aspects of the design of mechanical systems. This third edition provides the background, notation, and nomenclature essential for students to understand the various and independent technical approaches that exist in the field of mechanisms, kinematics, and dynamics of machines. The authors employ all methods of analysis and development, with balanced use of graphical and analytic methods. New material includes an introduction of kinematic coefficients, which clearly separates kinematic (geometric) effects from speed or dynamic dependence. At the suggestion of users, the authors have included no written computer programs, allowing professors and students to write their own and ensuring that the book does not become obsolete as computers and programming languages change. Part I introduces theory, nomenclature, notation, and methods of analysis. It describes all aspects of a mechanism (its nature, function, classification, and limitations) and covers kinematic analyses (position, velocity, and acceleration). Part II shows the engineering applications involved in the selection, specification, design, and sizing of mechanisms that accomplish specific motion objectives. It includes chapters on cam systems, gears, gear trains, synthesis of linkages,

spatial mechanisms, and robotics. Part III presents the dynamics of machines and the consequences of the proposed mechanism design specifications. New dynamic devices whose functions cannot be explained or understood without dynamic analysis are included. This third edition incorporates entirely new chapters on the analysis and design of flywheels, governors, and gyroscopes.

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