



Mechanics of Machinery

Mahmoud A. Mostafa

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Mechanics of Machinery describes the analysis of machines, covering both the graphical and analytical methods for examining the kinematics and dynamics of mechanisms with low and high pairs. This text, developed and updated from a version published in 1973, includes analytical analysis for all topics discussed, allowing for the use of math software for fast, precise analysis. The chapters include the following:

- Introduction of various mechanisms—such as four-revolute-pairs chain, double-slider, and compound mechanisms—and their motions and functions, with analytical analysis of each one
- Velocities and accelerations in mechanisms, using graphical and analytical analysis
- Analysis of sliding links using a theory developed by the author, which replaces the Coriolis component and is generally easier to apply
- Discussion of cams, with an emphasis on factors affecting cam design, such as the pressure angle and the radius of curvature
- The geometry and kinematics of a wide range of gears
- Force analysis in mechanisms—namely, static force, friction force, and dynamic force analysis
- Balancing machines, specifically rotating parts and reciprocating parts, as well as in-place balancing using vibration measurements

A reference for both students and professionals in mechanical engineering, this informative text offers a deeper understanding of kinematics and related applications. It also supplies the fundamentals to enable readers to apply procedures to problems they may encounter in the future.

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