



Mechanics of Machines

William Cleghorn, Nikolai Dechev

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Mechanics of Machines, Second Edition, is ideal for 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, illustrates common methods for synthesis of mechanisms, and covers design methodology for mechanisms.

The companion website for students includes over 170 models and animations. This includes 2D and 3D mechanisms and machines, and video clips of real mechanical systems in operation. It also features scaled drawings and Mathcad files for use with end-of-chapter problems.

NEW TO THIS EDITION

- * Two additional chapters devoted to **design methodology** as it relates to machines and mechanisms
- * Substantial increase in the **exercises and end-of-chapter problems**
- * Several **d**

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