



Fundamentals of Kinematics and Dynamics of Machines and Mechanisms

Oleg Vinogradov

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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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