



Dynamics and Vibration: An Introduction

Magd Abdel Wahab

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This book presents a new teaching methodology in Dynamics using E-learning, simulations and animation of mechanisms and mechanical vibrating systems. It covers Dynamics and Vibration modules that are taught at different undergraduate levels to the engineering students at Universities in the UK and worldwide. The content of the book is suitable for Level 1 Dynamics modules for Engineering students (Civil, Mechanical, Aerospace & Medical), as well as Level 2/3 Dynamics and Vibration Modules being taught to Mechanical, Aerospace & Medical Engineering students. In addition to the theory sections and the tutorial sheets provided after each chapter, software called DAMA, 'Dynamic Analysis for Mechanical Application', in which simulations of mechanisms and vibrating systems are implemented, is provided via a website. The DAMA software is packaged with everything it needs to work immediately. The simulations it contains are used to enhance students understanding of the motion and vibration of mechanical systems. The simulations include motion of a single cylinder engine, four-bar linkage mechanisms, gears and sliding/rotating rigid bars along with many others.

The simulations are fully interactive so that any change in the input parameters is immediately reflected in the animation, output plots and output parameters.

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