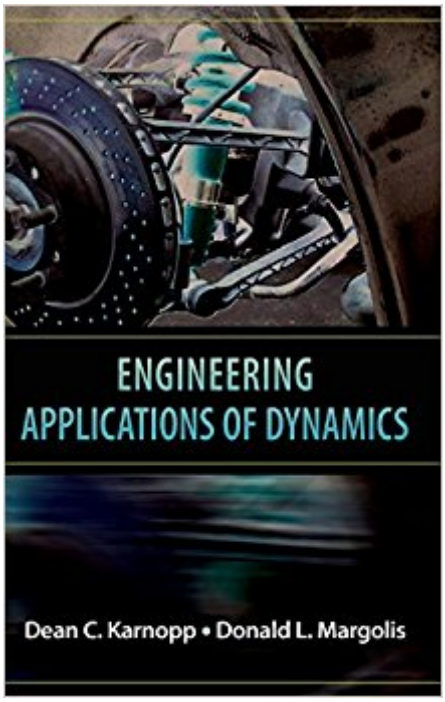
Engineering Applications Of Dynamics



Synopsis

A GROUNDBREAKING TEXT THAT BRIDGES TEH GAP BETWEEN THEORTERICAL DYANICS AND INDUSTRY APPLICATIONS. Designed to address the perceived failure of introductory dynamics courses to produce students capable of applying dynamic principles successfully, both in subsequent courses and in practice, Engineering Applications of Dynamics adopts a much-needed practical approach designed to make the subject not only more relevant, but more interesting as well. Written by a highly respected team of authors, the book is the first of its kind to tie dynamics theory directly to real-world situations. By touching on complex concepts only to the extent of illustrating their value in real-world applications, the authors provide students with a deeper understanding of dynamics in the engineering of mechanical systems. Topics of interest include: * The formulation of equations in forms suitable for computer simulation * Simulation examples of real engineering systems * Applications to vehicle dynamics * Lagrange's equations as an alternative formulation procedure * Vibrations of lumped and distributed systems * Three-dimensional motion of rigid bodies, with emphasis on gyroscopic effects * Transfer functions for linearized dynamic systems * Active control of dynamic systems A Solutions Manual with detailed solutions for al problems in this book is available at the Web site, www.wiley.com/college/karnopp.

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Dean C. Karnopp and Donald L. Margolis are professors of mechanical engineering at the University of California, Davis.

I was able to read and understand the concepts presented, unlike many engineering texts. As a student I found many errors in the graphics and repeated words in the paragraphs. The solutions to many problems are just that only solutions no steps presented. The author has sent out a long list of corrections I would anticipate an updated text soon.

I took this class at the University of the Pacific. It was a tough class due to trying to understand all of these concepts. Reading this book was also difficult because the author skipped a few steps, but overall a powerful tool to have as a reference.

The book needs to have more and better practice examples with clear explanation.

Overall, the book is ok, hard cover, but the price is a little bit high, the book is print in black and white except the cover. Also, I found some typo.

Too many typos!

Liked the book a lot. Neat, Clean and worthy of every penny. I would recommend this book to every Dynamics enthusiastic.

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