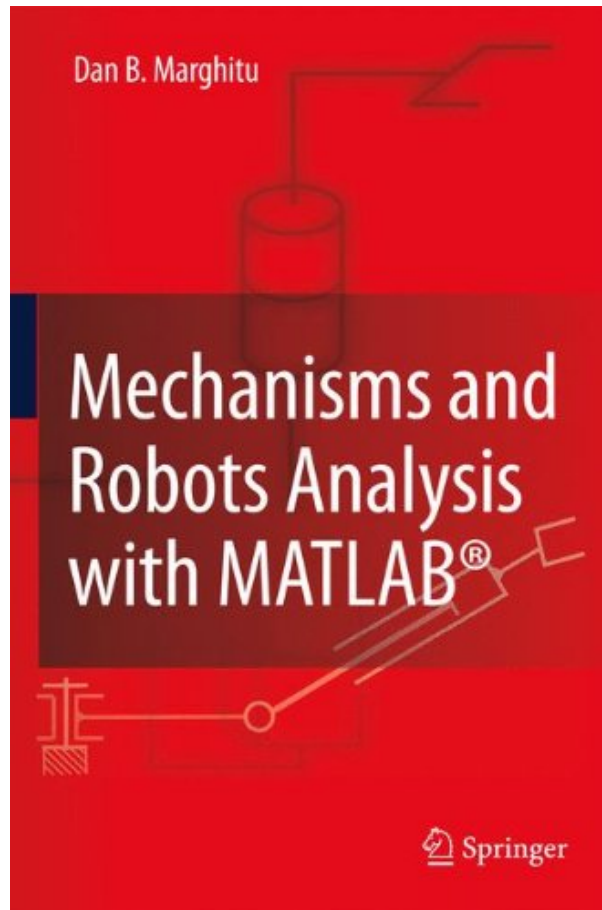


MECHANISMS AND ROBOTS ANALYSIS WITH MATLAB® BY DAN B. MARGHITU



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Mechanisms and Robots Analysis with MATLAB®

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Review

From the reviews:

“Some critical mechanical engineering courses, such as dynamics of machinery, robotics, mechatronics, and advanced dynamics, etc., all involve extensive calculations. ... it is an excellent textbook or reference for the courses listed above. ... Without doubt, the most attractive feature of this book is the abundant MATLAB source code. ... This is an outstanding textbook on the MATLAB implementation of kinematics and dynamics of mechanisms and robots. It is suitable for graduate-level courses” (Zhuang Li, International Journal of Acoustics and Vibration, Vol. 14 (3), 2009)

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Modern technical advancements in areas such as robotics, multi-body systems, spacecraft, control, and design of complex mechanical devices and mechanisms in industry require the knowledge to solve advanced concepts in dynamics. “Mechanisms and Robots Analysis with MATLAB” provides a thorough, rigorous presentation of kinematics and dynamics. The book uses MATLAB as a tool to solve problems from the field of mechanisms and robots. The book discusses the tools for formulating the mathematical equations, and also the methods of solving them using a modern computing tool like MATLAB. An emphasis is placed on basic concepts, derivations, and interpretations of the general principles. The book is of great benefit to senior undergraduate and graduate students interested in the classical principles of mechanisms and robotics systems. Each chapter introduction is followed by a careful step-by-step presentation, and sample problems are provided at the end of every chapter.

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