



Design and Analysis of Mechanisms: A Planar Approach

Michael J. Rider

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A planar or two-dimensional (2D) mechanism is the combination of two or more machine elements that are designed to convey a force or motion across parallel planes. For any mechanical engineer, young or old, an understanding of planar mechanism design is fundamental. Mechanical components and complex machines, such as engines or robots, are often designed and conceptualised in 2D before being extended into 3D.

Designed to encourage a clear understanding of the nature and design of planar mechanisms, this book favours a frank and straightforward approach to teaching the basics of planar mechanism design and the theory of machines with fully worked examples throughout.

Key Features:

- Provides simple instruction in the design and analysis of planar mechanisms, enabling the student to easily navigate the text and find the desired material
- Covers topics of fundamental importance to mechanical engineering, from planar mechanism kinematics, 2D linkage analyses and 2D linkage design to the fundamentals of spur gears and cam design
- Shows numerous example solutions using EES (Engineering Equation Solver) and MATLAB software, with appendices dedicated to explaining the use of both computer tools
- Follows end-of-chapter problems with clearly detailed solutions



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