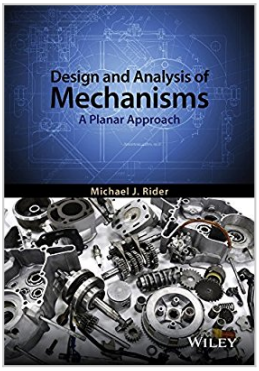

Design and Analysis of Mechanisms: A Planar Approach

By Michael J. Rider

Design and Analysis of Mechanisms: A Planar Approach By Michael J. Rider

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

Design and Analysis of Mechanisms: A Planar Approach

By Michael J. Rider

Design and Analysis of Mechanisms: A Planar Approach By Michael J. Rider

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

Design and Analysis of Mechanisms: A Planar Approach By Michael J. Rider Bibliography

- Sales Rank: #2113721 in Books
- Published on: 2015-07-07
- Original language: English
- Number of items: 1
- Dimensions: 9.65" h x .55" w x 6.65" l, .0 pounds
- Binding: Paperback
- 320 pages

Editorial Review

From the Back Cover

Michael J. Rider Ohio Northern University, USA

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

Users Review

From reader reviews:

Janet Steele:

Book is usually written, printed, or descriptive for everything. You can understand everything you want by a guide. Book has a different type. To be sure that book is important point to bring us around the world. Alongside that you can your reading ability was fluently. A e-book Design and Analysis of Mechanisms: A Planar Approach will make you to be smarter. You can feel much more confidence if you can know about everything. But some of you think that open or reading any book make you bored. It isn't make you fun. Why they can be thought like that? Have you trying to find best book or suitable book with you?

Marianne Guzman:

Hey guys, do you wants to finds a new book to read? May be the book with the name Design and Analysis of Mechanisms: A Planar Approach suitable to you? The book was written by well known writer in this era. Often the book untitled Design and Analysis of Mechanisms: A Planar Approachis the main one of several books in which everyone read now. That book was inspired a lot of people in the world. When you read this book you will enter the new dimension that you ever know prior to. The author explained their idea in the

simple way, so all of people can easily to recognise the core of this guide. This book will give you a wide range of information about this world now. So that you can see the represented of the world on this book.

Lionel Gutierrez:

Are you kind of busy person, only have 10 as well as 15 minute in your time to upgrading your mind talent or thinking skill perhaps analytical thinking? Then you are experiencing problem with the book when compared with can satisfy your short period of time to read it because pretty much everything time you only find guide that need more time to be read. Design and Analysis of Mechanisms: A Planar Approach can be your answer given it can be read by an individual who have those short extra time problems.

April Brooks:

You could spend your free time you just read this book this publication. This Design and Analysis of Mechanisms: A Planar Approach is simple to develop you can read it in the area, in the beach, train in addition to soon. If you did not have got much space to bring the printed book, you can buy the actual e-book. It is make you simpler to read it. You can save the actual book in your smart phone. Consequently there are a lot of benefits that you will get when you buy this book.

Read Design and Analysis of Mechanisms: A Planar Approach By Michael J. Rider for online ebook

Design and Analysis of Mechanisms: A Planar Approach By Michael J. Rider Free PDF d0wnl0ad, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read Design and Analysis of Mechanisms: A Planar Approach By Michael J. Rider books to read online.

Online Design and Analysis of Mechanisms: A Planar Approach By Michael J. Rider ebook PDF download

Design and Analysis of Mechanisms: A Planar Approach By Michael J. Rider Doc

Design and Analysis of Mechanisms: A Planar Approach By Michael J. Rider Mobipocket

Design and Analysis of Mechanisms: A Planar Approach By Michael J. Rider EPub

GT2NEV67R04: Design and Analysis of Mechanisms: A Planar Approach By Michael J. Rider