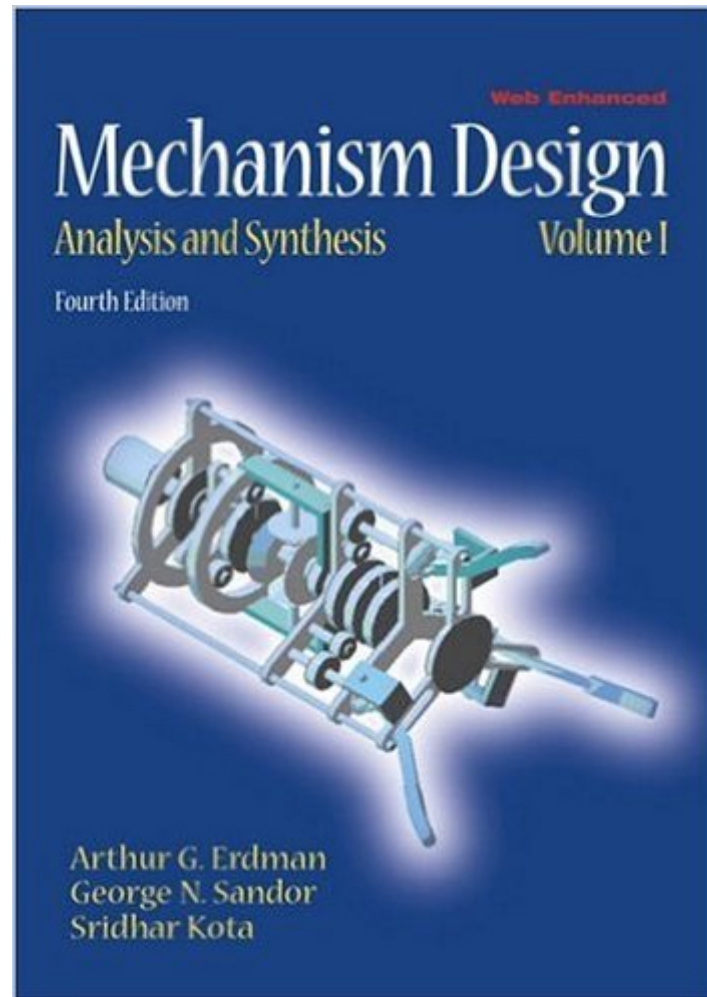


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Mechanism Design: Analysis And Synthesis (4th Edition)



Synopsis

This thorough and comprehensive web-enhanced edition has been updated and enhanced. No other book has a web connection like this one! The software associated with the book makes it very useful for designing and analyzing linkage and CAM mechanisms. Web-enhanced features include ADAMS[®] software, over 200 animated movie files of mechanisms and machines, and a new CAM design package. - To find out more about MSC.Adams[®] software and how it can be used to complement the use of this text, please visit www.mscsoftware.com/university or send an email to university@mscsoftware.com. New material includes coverage of type synthesis, robot grippers, and curvature cognates, while retaining coverage of traditional material with a significant treatment of kinematic synthesis. All material is explored both graphically and analytically. Graphical methods are used to fully explain basic principles. Features in-depth and rigorous discussions on displacement and velocity analysis; acceleration and force analysis; and cam design. For professionals interested in Kinematics, Mechanisms, and Dynamics.

Book Information

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Customer Reviews

I'm a junior mechanical engineering student at a university. This is the text used for my kinematics and dynamics of machinery class. This book is very poorly written, and it's not user friendly. It is hard to follow the examples in this book. If someone already has knowledge on mechanism design, then this book may be used as a good reference. But for those just learning, this book is horrible.

This book was a new choice from our professor who was teaching our mechanism design class. In my opinion, the three authors who wrote it each took a section and slapped their parts together. Totally different writing style as you go through the book. In addition it is a small book and you constantly are turning pages to make references to figures which makes it hard to read with good flow. In addition a lot of the diagrams are unclear and don't necessarily say what they represent. Our professor ended up hating the book himself. A good reference maybe but not for the beginner.

The authors obviously know a great deal about mechanism design, but they've done a terrible job of conveying that knowledge in a clear fashion. The illustrations are unclear and the photos are even worse. The text reads like a rambling lecture rather than an organized, logical piece of writing. If I could use one word to describe this text, it would be "dense". This book might be useful as a reference, but is terrible for someone seeing the material for the first time.

This is one of the worst text books I ever had the misfortune of using in my undergraduate degree. You could not learn mechanism design or synthesis from this book, if you are lucky you will have a skilled professor and learn in class. The concepts are discussed only superficially, the examples do not cover the concepts and are presented largely incomplete with many steps skipped. The text is frankly way too short for such a complex subject. The sheer crappiness of this text as a teaching tool is obvious when compared to other mech eng texts (Hibbeler, Ogata, Serway). Unfortunately, this is the only mechanism design text I am familiar with so I can't recommend anything else.

The writing style of this text book is not clear and it attempts to teach through examples without explaining where the equations came from and why they are using them. The physical book itself has multiple binding issues with corners of pages unbound from the book and an overall uneven binding that has resulted in tears in the inner edges of the pages. I definitely would not recommend this book to anyone.

Book was said to be in "acceptable condition". There are pages MISSING pages from the textbook. The spine is broken. I keep having to take pictures of other classmate's books because the pages missing are the ones I need. Overall, I am very dissatisfied and regret buying this book and wish I would have actually received an "acceptable condition" textbook.

Thank you, good quality for low price. This book has a lot of information and more information than you could imagine about linkages. Will help for future with most engineering job of product and mechanical design. Professor Erdman is a genius. Ps. if you can get your hands on linkages software it is very valuable. Outdated software but it still works!

As a Junior majoring in Mechanical Engineering I am required to use this text for a mechanism design course. This book fails to teach one any of the fundamentals associated with mechanism design. The examples are poor and do not give much context to the problem solution. This book may be better suited as a reference for mechanism design as one of its author (a professor at my university) is world-renowned for his work in mechanism. I would avoid this text unless it is necessary for one of your courses.

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