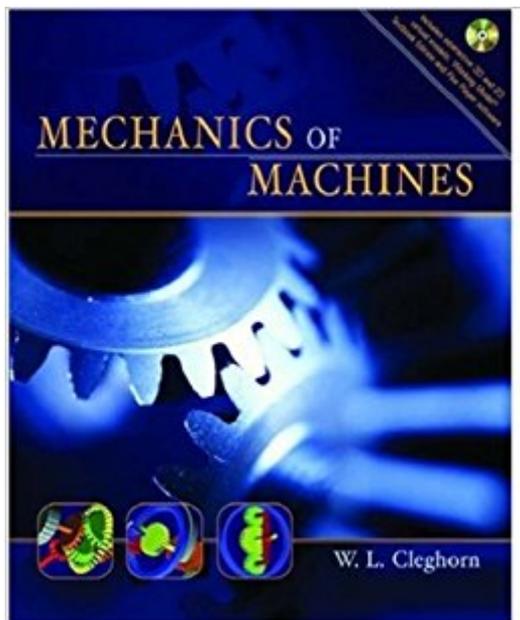


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# Mechanics Of Machines



## Synopsis

Mechanics of Machines is designed for undergraduate courses in kinematics and dynamics of machines. It covers the basic concepts of gears, gear trains, the mechanics of rigid bodies, and graphical and analytical kinematic analyses of planar mechanisms. In addition, the text describes a procedure for designing disc cam mechanisms, discusses graphical and analytical force analyses and balancing of planar mechanisms, and illustrates common methods for the synthesis of mechanisms. Each chapter concludes with a selection of problems of varying length and difficulty. SI Units and US Customary Units are employed. An appendix presents twenty-six design projects based on practical, real-world engineering situations. These may be ideally solved using Working Model software. A CD-ROM, included in every copy of this book, contains virtual moving models of a wide range of machines, including engines, meshing gears, cam mechanisms, intermittent motion mechanisms, pumps, shaft couplings, locks, braking systems, threaded connections, and a synchronizer. Most of these models are three-dimensional and allow the user to highlight a component or process of interest as well as alter both the point-of-view and zoom during the simulated motion. In addition, icons in the book's margins enable the reader to readily identify the corresponding files on the CD-ROM.

**CD-ROM Highlights**

- Offers more than 140 files of interactive virtual models and video clips of a diverse assortment of machines and mechanisms
- Contains Working Model<sup>®</sup>, Textbook Edition, the world's most popular 2D motion software
- Includes flux Player VRML software to view virtual models
- Includes the Windows-based computer program, Cam Design, that allow one to design, animate, and evaluate disc cam mechanisms
- Provides files of scaled diagrams of mechanisms, for solving problems using graphical analyses involving velocity, acceleration, and force

A Solutions Manual (0-19-522212-1) and a CD-ROM with PowerPoint<sup>®</sup> overheads (0-19-522226-1) are available to adopters.

## Book Information

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## Customer Reviews

W. L. Cleghorn is Professor and Clarice Chalmers Chair of Engineering Design at the University of Toronto. He has taught subjects in mechanics and design for over twenty years, and holds numerous teaching awards.

Man oh man! We all know the struggle of buying textbooks for class. I'm not even sure why engineering textbooks are so expensive. For that reason I decided to rent the 1st edition of this book instead of spending more money on renting the 2nd edition. WRONG IDEA! Please, save your money and buy/rent the 2nd edition. Obviously the content is the same, however the way it is presented is different. The 2nd edition gives more examples, visuals, text. This 1st edition, bruhhhh, it's horrible. Not enough content to make sure you grasp the material. With that being said, I will be returning it. We all know that there's a science behind why publishers charge \$\$\$ for a new edition of a book a year later. However, I understand why the 2nd edition is so much money in this instance. The 1st edition was published in 2005 and the 2nd edition was published almost 10 years later, so there was a lot of improvement. In addition, my professor worked under Cleghorn and provided the solutions to examples and personally feels the 2nd edition should be bought over the 1st. Happy studying ya'll.

Believe the negative reviews. I consider myself a pretty good student and can usually pick up material on my own via textbook but this one wasn't one of them. For a course like this, solving problems is the main focus and as a result example problems presented in the textbook need to be clear and helpful. Sadly they are neither. Examples are presented with minimal explanations of how they came to a particular value or solution. It's almost like you are expected to just divine how they come to the answers. Also, many of the assigned problems at the end of the chapters that are usually assigned for homework are a degree of difficulty harder than the example problems. Working on assignments becomes a frustrating experience and I honestly did not learn as much as I was looking forward to. This was a required text for my class and I had to buy it but once it was over, I promptly resold it.

The author explains things horribly and goes about things the hardest way possible. I seriously though I was looking at hieroglyphics. I had to translate his work into actual engineering and write notes in the book. Many of the worked examples do not cover the end of chapter problems. The end of chapter problems do not have full answers and none of them are worked out. For this subject, it is crucial to have a complete explanation of the solution.

It's rough when the professor has to provide his solutions to each problem assigned. The examples in the book don't apply to the problem sets, the answers provided in the back are literally on a single page for the whole book -- there simply are only a few answers for the problems. Oxford literally has not published a solutions manual for this book either. It really is just a supplement to the class that does little to help learn anything.

This textbook is absolutely awful. The figures are nowhere near the area they discuss them in the chapter. The explanations for everything are short and useless. The answer key in the back of the book contains 3-5 answers per chapter if even that. The examples within the chapter are awful. Cleghorn needs to quit writing books if he thinks he is doing a proper job. For the quality of this book, the price should be well below 30 dollars. Congrats to Oxford publishing and Cleghorn for winning the award for worst textbook ever produced. I am frustrated with the price I paid (Not 's fault) and the quality of this book. Do not purchase this book unless you have an amazing teacher to explain the material that this book obviously cannot.

This book is terrible. The examples are difficult to follow unless you have a vast amount of background. This book was chosen by my professor because of its size not its content. If your professor has chosen this book please do yourself a favor and start looking for other resources now. I do not recommend this book for any undergrad engineering course. The examples are the worst and I feel I have wasted a massive amount of time trying to answer the questions. Also, the solution set is nowhere to be found so a student can't even check if they did the problem correctly. This book will leave you in the dark.

Buy the newer edition! Much clearer and easier to understand.

got the book i needed, great quality!

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