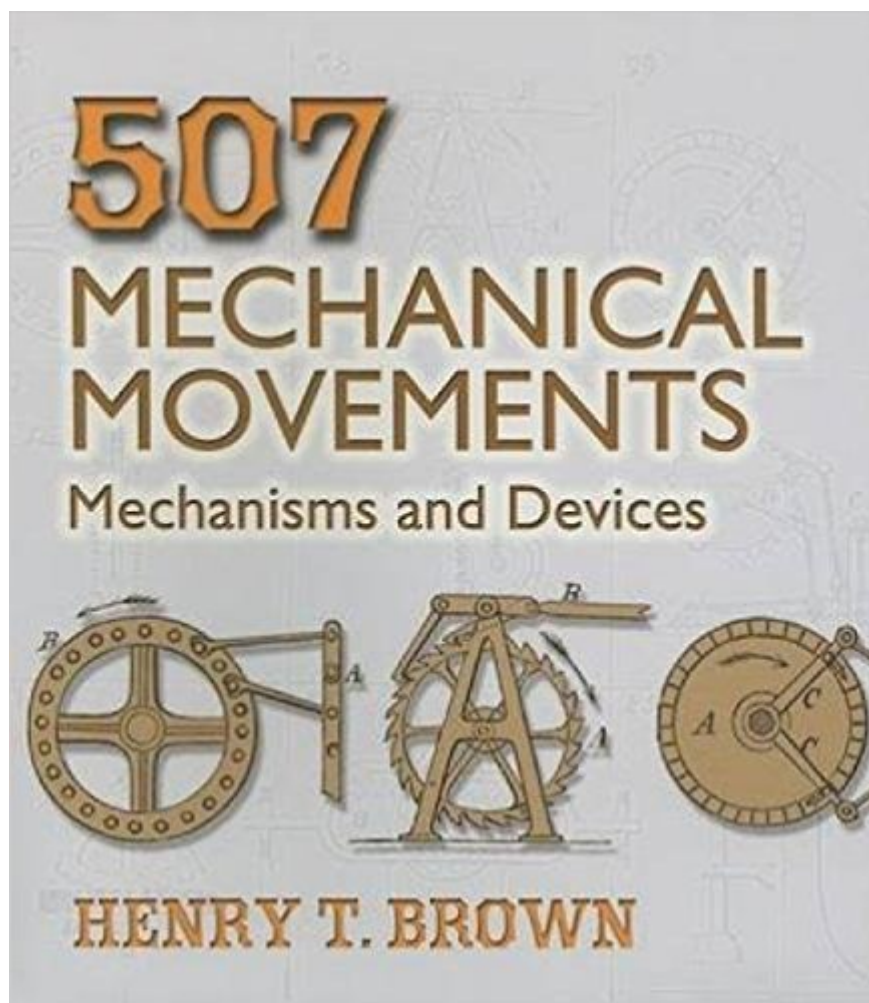




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# 507 Mechanical Movements: Mechanisms And Devices (Dover Science Books)



## Synopsis

Epicyclic trains, oblique rollers, trip hammers, and lazy-tongs are among the ingenious mechanisms defined and illustrated in this intriguing collection. Spanning the first century of the Industrial Revolution, this 1868 compilation features simplified, concise illustrations of the mechanisms used in hydraulics, steam engines, pneumatics, presses, horologes, and scores of other machines. The movements of each of the 507 mechanisms are depicted in drawings on the left-hand page, and the facing page presents a brief description of the item's use and operation. Ranging from simple to intricately complex, the mechanisms offer a fascinating view of the variety of small components that constitute complex machinery. A detailed index provides easy reference to specific mechanisms. Inventors, tinkerers, and anyone with an interest in the history of invention and technology will find this volume a treasury of information and inspiration.

## Book Information

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## Customer Reviews

Over five hundred simple mechanical movements from America's first one hundred years of the Industrial Revolution! For those who share an interest in mechanical things, this book is addictive. Through the use of simplified, concise drawings, here are 507 of the small components which make up complex machinery, in areas as diverse as C.R. Otis's safety stop for the elevator, Pickering's governor for a steam engine, Arnold's escapement for watches, compound parallel rules, piston rod guides, the grasshopper beam engine and a self recording level for surveyors. The list goes on

and on in fascinating variety. Each movement is explained and illustrated. Many could be made out of wood as sculptures or study models. Fascinating reading. 122 pages. 6" x 9". Soft cover. -- Book Description --This text refers to an alternate Paperback edition.

I saw some good reviews on the Kindle edition, but I have just the paperback edition. And it does not meet my needs. The reviews I read on the Kindle edition says it has a cross-reference. The paperback edition does not. Drawings and very short descriptions, that's all you'll find in this book. No instructions on building any of the movements, no measurements, although a few of the pulley type drawings I saw did have ratios in the description. I wanted something to help me build simple toys out of wood and cardboard, plastic and string. I wanted to be able to search for ideas like using a motor to make levers wave in different directions, but this book does not have a way of searching the drawings. It doesn't have exploded views to help you make your own. It only has drawings and short descriptions. It did not suit my needs.

I purchased 507 Mechanical Movements: Mechanisms and Devices by Henry T. Brown, to have a source of information and examples of the Mechanical Engineering device concepts to reference while using other texts and studying Mechanical Engineering in review. I know the five hundred mechanisms and devices are in drawings and illustrations, rather than digital or CAD drawings, but you can spend a lot of money purchasing CAD drawn examples of this type. Each of the mechanisms is illustrated with drawings and descriptions of how it is used. This digital edition includes an handy index to the contents also.

I bought this for my brilliant inventive husband and he loves this book. As he's reading, I often hear him exclaiming over the various things he has found in there, comparing them with other things he has used or read about. He loved this gift and I'm so happy! We both believe that the mechanical solution is often far better than the electronic one, and this book is an excellent resource as we move more of our lives off-grid.

A myriad of movement ideas, they are presented in the basic idea style, and with some ingenuity and elbow grease I can see quite a few ideas put to use. Interesting how inventive some people are to come up with some of the concepts.

Nothing fancy or earth-shattering, but if you are curious and are tired of people assuming that

EVERYBODY should know that, then this little book is for you. :)Fills in the blank between, yup I know what a wheel and a gear are and what the heck is a rack and pinion, without snide remarks. :)

The title pretty much tells you what you'll find inside. A great introduction to mechanics. The only thing better would be a way to animate the mechanisms. But that's too much to expect from a printed book.

Excellent book for understanding mechanical movement.

I love this little book. I tried a couple other mechanical mechanism books after getting this one but this one is the best by far. I'm amazed how many ways there are to move things that I would have never conceived of on my own. I modeled one of the mechanism and printed it on my 3D printer and leave it laying on my desk at work. Its a great conversation starter.

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