



# The Mechanics of Mechanical Watches and Clocks (History of Mechanism and Machine Science)

By Ruxu Du, Longhan Xie

[Download now](#)

[Read Online](#) 

**The Mechanics of Mechanical Watches and Clocks (History of Mechanism and Machine Science)** By Ruxu Du, Longhan Xie

"The Mechanics of Mechanical Watches and Clocks" presents historical views and mathematical models of mechanical watches and clocks. Although now over six hundred years old, mechanical watches and clocks are still popular luxury items that fascinate many people around the world. However few have examined the theory of how they work as presented in this book. The illustrations and computer animations are unique and have never been published before.

It will be of significant interest to researchers in mechanical engineering, watchmakers and clockmakers, as well as people who have an engineering background and are interested in mechanical watches and clocks. It will also inspire people in other fields of science and technology, such as mechanical engineering and electronics engineering, to advance their designs.

Professor Ruxu Du works at the Chinese University of Hong Kong, China. Assistant Professor Longhan Xie works at the South China University of Technology, China.

 [Download The Mechanics of Mechanical Watches and Clocks \(Hi ...pdf](#)

 [Read Online The Mechanics of Mechanical Watches and Clocks \( ...pdf](#)

# **The Mechanics of Mechanical Watches and Clocks (History of Mechanism and Machine Science)**

*By Ruxu Du, Longhan Xie*

**The Mechanics of Mechanical Watches and Clocks (History of Mechanism and Machine Science)** By Ruxu Du, Longhan Xie

"The Mechanics of Mechanical Watches and Clocks" presents historical views and mathematical models of mechanical watches and clocks. Although now over six hundred years old, mechanical watches and clocks are still popular luxury items that fascinate many people around the world. However few have examined the theory of how they work as presented in this book. The illustrations and computer animations are unique and have never been published before.

It will be of significant interest to researchers in mechanical engineering, watchmakers and clockmakers, as well as people who have an engineering background and are interested in mechanical watches and clocks. It will also inspire people in other fields of science and technology, such as mechanical engineering and electronics engineering, to advance their designs.

Professor Ruxu Du works at the Chinese University of Hong Kong, China. Assistant Professor Longhan Xie works at the South China University of Technology, China.

**The Mechanics of Mechanical Watches and Clocks (History of Mechanism and Machine Science)** By Ruxu Du, Longhan Xie **Bibliography**

- Sales Rank: #1685875 in Books
- Brand: Brand: Springer
- Published on: 2012-09-21
- Original language: English
- Number of items: 1
- Dimensions: 9.20" h x .70" w x 6.30" l, .90 pounds
- Binding: Hardcover
- 179 pages



[Download The Mechanics of Mechanical Watches and Clocks \(Hi ...pdf](#)



[Read Online The Mechanics of Mechanical Watches and Clocks \( ...pdf](#)

---

**Download and Read Free Online The Mechanics of Mechanical Watches and Clocks (History of Mechanism and Machine Science) By Ruxu Du, Longhan Xie**

---

## Editorial Review

### Review

From the reviews:

“An interesting and well-illustrated introduction into the history and current understanding of the mechanics of watches and clocks . . . . Many of the results reported here were obtained by academicians in China, first published as PhD or Master theses, or various local research papers. The publication of this monograph in the Springer series ‘History of Mechanism and Machine Science’ makes the interesting topic of design and manufacturing of mechanical watches and clocks easier accessible to the western research community.”  
(Franz Selig, Zentralblatt MATH, Vol. 1262, 2013)

### From the Back Cover

“The Mechanics of Mechanical Watches and Clocks” presents historical views and mathematical models of mechanical watches and clocks. Although now over six hundred years old, mechanical watches and clocks are still popular luxury items that fascinate many people around the world. However few have examined the theory of how they work as presented in this book. The illustrations and computer animations are unique and have never been published before.

It will be of significant interest to researchers in mechanical engineering, watchmakers and clockmakers, as well as people who have an engineering background and are interested in mechanical watches and clocks. It will also inspire people in other fields of science and technology, such as mechanical engineering and electronics engineering, to advance their designs.

Professor Ruxu Du works at the Chinese University of Hong Kong, China. Assistant Professor Longhan Xie works at the South China University of Technology, China.

### About the Author

Prof. Ruxu Du was born in China in 1955. He received his Master’s degree from the South China University of Technology in 1983 and his Ph.D. degree from the University of Michigan in 1989. He has taught in the North America for ten years before joining the Chinese University of Hong Kong. Currently, he is a professor in the Dept. of Mechanical and Automation Engineering. He is also the director of the Guangzhou Chinese Academy of Science (CAS) Institute of Advanced Technology. His areas of research include: design (mechanical watch and clock, industry sewing machine and etc.) and manufacturing (metal forming, machining, plastic injection molding and etc.), as well as energy and materials. He has published over 290 papers in various academic journals and international conferences. He is the associate editor / the members of editorial board of six international journals. He is a Fellow of ASME. He has been happily married since 1985 and has two children, Jin and Ann. He enjoys Chinese poetry and tennis.

Dr. Longhan Xie was born in China in 1978. He received his Bachelor’s degree in 2002 and Master’s degree in 2005, both from Zhejiang University, China, and his Ph.D. degree in 2010 from the Chinese University of Hong Kong. Currently, he is an assistant professor in the School of Mechanical and Automotive Engineering, the South China University of Technology. His areas of research include product design, CAD/CAE and energy harvesting devices.

## **Users Review**

### **From reader reviews:**

#### **Suzanne Crider:**

The knowledge that you get from The Mechanics of Mechanical Watches and Clocks (History of Mechanism and Machine Science) could be the more deep you excavating the information that hide inside the words the more you get enthusiastic about reading it. It does not mean that this book is hard to comprehend but The Mechanics of Mechanical Watches and Clocks (History of Mechanism and Machine Science) giving you buzz feeling of reading. The writer conveys their point in a number of way that can be understood by means of anyone who read the item because the author of this e-book is well-known enough. This kind of book also makes your personal vocabulary increase well. Making it easy to understand then can go together with you, both in printed or e-book style are available. We advise you for having this particular The Mechanics of Mechanical Watches and Clocks (History of Mechanism and Machine Science) instantly.

#### **Tammara Dejesus:**

This The Mechanics of Mechanical Watches and Clocks (History of Mechanism and Machine Science) usually are reliable for you who want to be a successful person, why. The explanation of this The Mechanics of Mechanical Watches and Clocks (History of Mechanism and Machine Science) can be on the list of great books you must have is actually giving you more than just simple looking at food but feed anyone with information that perhaps will shock your preceding knowledge. This book is handy, you can bring it everywhere and whenever your conditions throughout the e-book and printed versions. Beside that this The Mechanics of Mechanical Watches and Clocks (History of Mechanism and Machine Science) forcing you to have an enormous of experience including rich vocabulary, giving you tryout of critical thinking that we understand it useful in your day action. So , let's have it appreciate reading.

#### **Bryan Donovan:**

Why? Because this The Mechanics of Mechanical Watches and Clocks (History of Mechanism and Machine Science) is an unordinary book that the inside of the guide waiting for you to snap the item but latter it will surprise you with the secret that inside. Reading this book alongside it was fantastic author who have write the book in such amazing way makes the content inside easier to understand, entertaining technique but still convey the meaning thoroughly. So , it is good for you because of not hesitating having this any more or you going to regret it. This amazing book will give you a lot of gains than the other book have such as help improving your ability and your critical thinking method. So , still want to hold up having that book? If I have been you I will go to the publication store hurriedly.

#### **Clyde Connell:**

Your reading sixth sense will not betray an individual, why because this The Mechanics of Mechanical Watches and Clocks (History of Mechanism and Machine Science) publication written by well-known writer who really knows well how to make book that may be understand by anyone who all read the book. Written throughout good manner for you, dripping every ideas and composing skill only for eliminate your hunger

then you still doubt The Mechanics of Mechanical Watches and Clocks (History of Mechanism and Machine Science) as good book not merely by the cover but also from the content. This is one e-book that can break don't ascertain book by its handle, so do you still needing another sixth sense to pick this specific!? Oh come on your studying sixth sense already said so why you have to listening to yet another sixth sense.

**Download and Read Online The Mechanics of Mechanical Watches and Clocks (History of Mechanism and Machine Science) By Ruxu Du, Longhan Xie #1AF8IPVMYBS**

# **Read The Mechanics of Mechanical Watches and Clocks (History of Mechanism and Machine Science) By Ruxu Du, Longhan Xie for online ebook**

The Mechanics of Mechanical Watches and Clocks (History of Mechanism and Machine Science) By Ruxu Du, Longhan Xie 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 The Mechanics of Mechanical Watches and Clocks (History of Mechanism and Machine Science) By Ruxu Du, Longhan Xie books to read online.

## **Online The Mechanics of Mechanical Watches and Clocks (History of Mechanism and Machine Science) By Ruxu Du, Longhan Xie ebook PDF download**

**The Mechanics of Mechanical Watches and Clocks (History of Mechanism and Machine Science) By Ruxu Du, Longhan Xie Doc**

**The Mechanics of Mechanical Watches and Clocks (History of Mechanism and Machine Science) By Ruxu Du, Longhan Xie MobiPocket**

**The Mechanics of Mechanical Watches and Clocks (History of Mechanism and Machine Science) By Ruxu Du, Longhan Xie EPub**