



# Kinematics: Theory and Applications

By Jens Wittenburg

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## **Kinematics: Theory and Applications** By Jens Wittenburg

The book deals with kinematics of mechanisms. It focuses on a solid theoretical foundation and on mathematical methods applicable to the solution of problems of very diverse nature. Applications are demonstrated in a large number of fully worked-out problems.

In kinematics a wide variety of mathematical tools is applicable. In this book, wherever possible vector equations are formulated instead of lengthy scalar coordinate equations. The principle of transference is applied to problems of very diverse nature.

15 chapters of the book are devoted to spatial kinematics and three chapters to planar kinematics. In Chapt. 19 nonlinear dynamics equations of motion are formulated for general spatial mechanisms. Nearly one half of the book is dealing with position theory and the other half with motion.

The book is intended for use as reference book for researchers and as textbook in advanced courses on kinematics of mechanisms.

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## **Editorial Review**

### Review

“The present book is devoted to the kinematics of the single rigid body and of systems of inter-connected rigid body. ... After reading this book, the reader will be convinced that the intended audience for it consists of graduate and Ph.D. students as well as scientists and engineers from academia and industry in the area of theoretical mechanics, theory of mechanisms, robotics and mechatronics.” (Clementina Mladenova, zbMATH 1336.70001, 2016)

### From the Back Cover

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### About the Author

**Professor Jens Wittenburg** was Professor for Mechanics at University of Karlsruhe. He was a visiting professor at the University Paris VI, at the Kliment-Ochridsky University Sofia and at the Jiaotong-University Xi'an. He is still active in research and has been invited to give lectures all over the world.

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