Record Nr.	UNINA9910813638303321
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Titolo	Engineering Mechanics / / Ping Yi, Jun Liu, and Feng Jiang
Pubbl/distr/stampa	[Place of publication not identified] : , : Science Press, EDP Sciences, , [2022] ©2022
ISBN	2-7598-2902-2
Edizione	[First edition.]
Descrizione fisica	1 online resource (474 p.)
Collana	Current Natural Sciences Series
Disciplina	620.104
Soggetti	Dynamics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Frontmatter Foreword Contents Chapter 1. Introduction Chapter 2. Vectors and Vector Operations Chapter 3. Simplification of Force Systems Chapter 4. Equilibrium of Rigid Bodies Chapter 5. Friction Chapter 6. Kinematics of Particles Chapter 7. Planar Kinematics of Rigid Bodies Chapter 8. Kinetics: Equations of Motion Chapter 9. Kinetics: Work and Energy Chapter 10. Kinetics: Impulse and Momentum Answers References
Sommario/riassunto	Engineering mechanics provides the theories and methods of describing and predicting the state of equilibrium or accelerated motion of particles or rigid bodies under the action of forces. It consists of three parts: statics (chapters 1–5), kinematics (chapters 6 and 7) and kinetics (chapters 8–10) and it is basically corresponding to the course of "theoretical mechanics" in China. It is hoped that this book will help to develop in engineering students the correct understanding of the principles of mechanics and the ability to analyze and solve engineering problems using the principles. This book can be used as a teaching material for civil engineering, hydraulic engineering, mechanical engineering, aerospace, transportation and other engineering majors in colleges and universities, and as a self-study book for relevant technical personnel.

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