

# SALEM PRESS

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## Salem Press Announces the newest Volume in *The Principles of Science Series,* *Mechanics*

Salem Press is pleased to add *Principles of Mechanics* to its well-established *Principles of Science* series. This volume introduces students and researchers to the fundamental concepts of mechanics, the branch of physics that focuses on the movement and motion of physical objects under a force and when at rest, using easy-to-understand language, to provide a solid background in classical mechanics, mechanical engineering, and quantum mechanics and help readers develop a deeper and meaningful understanding of this important and evolving topic.

*Principles of Mechanics* includes more than 130 entries arranged in A-to-Z order to help make finding a topic of interest easy. Entries related to basic principles and concepts include a list of the Fields of Study covered by the article; an Abstract that provides a brief, concrete summary of the topic and its significance; a list of Key Concepts with definitions, important to a proper understanding of the topic; and a detailed Essay that provides extensive background on the topic and explores its significance to the field of mechanics; and a list of Further Reading for those who wish to pursue the topic in more depth.

Entries in *Principles of Mechanics* range from one to five pages in length. Topics discussed include:

- Acceleration
- Biomechanics
- Calculus
- Engineering
- Galileo
- Helicopters
- Kinematics
- Magnetism
- Newton's Laws
- Pendulums
- Robotics
- Stability
- Thermodynamics
- Vacuum
- Velocity
- Work-Energy Theorem

This volume also includes several helpful appendixes, including:

- A Glossary that defines all the key specialized terms used throughout the book
- A comprehensive list of Further Reading, comprising all the works that the authors drew upon in writing their articles as well as subjects for further study
- A Subject Index, that offers multiple points of entry for the reader

With more than 130 essays, this new volume will give readers an overview of the major concepts and contemporary issues surrounding the study of mechanics. Designed for students and researchers, this volume provides a fitting entry into a better understanding of this interesting yet complex subject of mechanics. This will be a helpful addition to science programs at the high school, community college, and university levels, and is a must for students with an interest in mechanics at the high school and undergraduate levels.

### **FREE ONLINE ACCESS**

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#### *Principles of Mechanics*

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