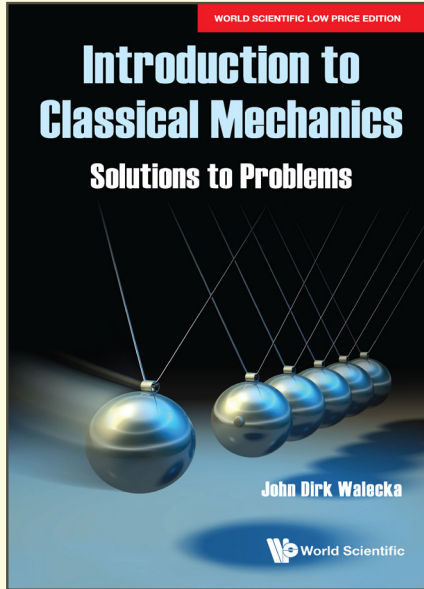


Introduction to Classical Mechanics

Solutions to Problems



By **John Dirk Walecka**
(College of William and Mary, USA)

ISBN	9798886130799
Extent	152pp
Binding	Paperback
Year	2024
Price	Rs. 1195

ABOUT THE BOOK

The textbook *Introduction to Classical Mechanics* aims to provide a clear and concise set of lectures that take one from the introduction and application of Newton's laws up to Hamilton's principle of stationary action and the lagrangian mechanics of continuous systems. An extensive set of accessible problems enhances and extends the coverage.

It serves as a prequel to the author's recently published book entitled *Introduction to Electricity and Magnetism* based on an introductory course taught some time ago at Stanford with over 400 students enrolled. Both lectures assume a good, concurrent course in calculus and familiarity with basic concepts in physics; the development is otherwise self-contained.

As an aid for teaching and learning, and as was previously done with the publication of *Introduction to Electricity and Magnetism: Solutions to Problems*, this additional book provides the solutions to the problems in the text *Introduction to Classical Mechanics*.

READERSHIP

First year undergraduate students, and all physicists interested in the topic.

CONTENTS

- Preface
- Introduction
- Vectors
- Inertial Coordinate Systems
- Newton's Laws
- Examples
- Energy

- Angular Momentum
- System of Particles
- Generalized Coordinates
- Hamilton's Principle
- Lagrangian Dynamics
- Hamiltonian Dynamics
- Continuum Mechanics
- Waves
- Continuum Mechanics of String
- Mechanics of Fluids
- **Appendices:**
 - Numerical Methods
 - Significant Names in Classical Mechanics
- Bibliography
- Index

For orders and enquiries, please contact us:

FEEL
Books

FEELBOOKS PVT. LTD.

www.feelbooks.in

DELHI

4381/4 Ansari Road, Daryaganj, New Delhi 110002

Tel: +91-11-47472630

Email: orders@feelbooks.in

BENGALURU

C-22, Brigade MM, KR Road, Jayanagar 7th Block, Bengaluru 560070

Tel: +91-80-26762129

Email: bangalore@feelbooks.in

MUMBAI ♦ CHENNAI ♦ KOLKATA ♦ HYDERABAD



For any queries, please email us at marketing@feelbooks.in



www.feelbooks.in