## Master solid programming skills in the context of learning and applying physics

In the third edition of this acclaimed and highly regarded undergraduate textbook, authors Harvey Gould and Jan Tobochnik are joined by Wolfgang Christian for a thorough and progressive update using Java—currently the most popular programming language. The text retains its renowned focus on teaching and learning physics concepts and their applications through computer simulations. This new edition uses object-oriented program-rages the development of good programming habits in the context of doing physics. Appropriate for courses, the text allows individuals with a wide variety of backgrounds and abilities to work together.

updated throughout with new material on Java, complex systems, i, rigid body dynamics, and relativity.

learning physics through example using computer simulations used at a variety of levels within the physics curriculum.

e written in Java using the Open Source Physics library (See *Open* s: A User's Guide, by Wolfgang Christian) to make input/output, plots, and routine numerical tasks easy to implement.

dard textbook in computational physics. It is exciting to see a new edition appearing, especially n of Wolfgang Christian, and a conversion to Java. This new edition provides just the right mix omputation with interesting problems." — Alejandro L. Garcia, San Jose State University

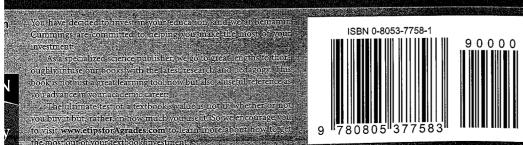
y nature of the problems strongly encourages the student to experiment with the concepts, see physics as an exploratory and experimental discipline. I consider this a particularly gth of this book." — Lowell M. Boone, The College of Wooster

pressed with the wonderful collection of problems and questions in this text."

Godunov, Old Dominion University

t www.aw-bc.com for more information. To order any of our products, contact our customer ent at (800) 824-7799, or (201) 767-5021 outside of the U.S., or visit your campus bookstore.

## GE TO STUDENTS FROM THE TEXTBOOK PUBLISHER



The beautiful thing about learning is that no one can takent away homeyou." — 1.3. Sins

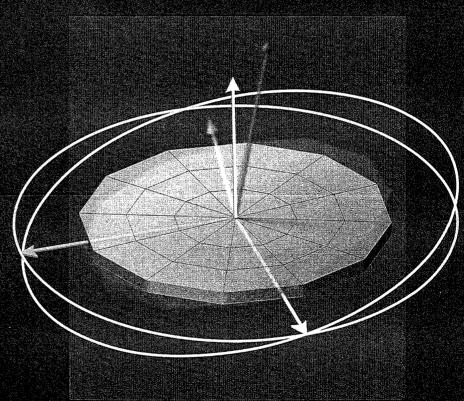
Gould Tobochnik Christian

THIRD EDITION MPUNER Introdu 0 ם NOLLY 0 MEDITION

Addison Wesley An Introduction to

## COMPUTER SIMULATION METHODS

APPLICATIONS TO PHYSICAL SYSTEMS



THIRD EDITION

Harvey Gould • Jan Tobochnik • Wolfgang Christian