Interactive Physics, Hybrid CD

Model, simulate, and explore a wide variety of physical phenomena to create nearly any experiment imaginable.

Product Features

Explore the Physical World Through Exciting Simulations	Visualize the Abstract Concepts Taught in the Classroom
Test Hypotheses and Investigate "What-If" Scenarios	Learn School-to-Work Skills with Real-World Motion Tools
New Curriculum Workbook Correlated with National and State Standards and Objectives	Full-Color Teacher Edition and Black-Line Master Student Edition
New Interactive Experiments Explore Speed, Distance, Time, Acceleration, Force, Weight, Mass, Gravity and Air Resistance	Curriculum Workbook Chapters (Windows)
Generic Constraints (Windows)	Formula Language Commands (Windows)
Instantaneous Vectors (Windows)	Improved Graphing (Windows)

Grade Level

High School • College • University

Detailed Product Information:

Designed to help educators be successful in the classroom and laboratory, Interactive Physics is visually appealing and easy to learn. Your students will enjoy the interactive environment and the speed at which they can expand their understanding of the physical world.

Featured packed, Interactive Physics allows you to create your own models by drawing on-screen using the powerful and easy-to-use interface. Add objects like springs, pulley, dampers, ropes, and joints quickly and easily. Measure physical quantities such as velocity, acceleration, momentum, angular momentum, kinetic energy, and friction – all in real time. Display your data digitally, as graphs or animated vectors on-screen. Try a variety of "what if" scenarios and immediately and view the results or use the interactive sound feature to model the Doppler effect.

Create any experiment imaginable with an easy-to-use interface:

- Create objects by drawing circles, blocks, and polygons
- Measure velocity, acceleration, force, energy, etc., in metric or English units
- Create ropes, springs, dampers, pulleys, slots, actuators, and motors
- Simulate contact, collisions, and friction
- Vary air resistance, gravity, or material properties
- View results as numbers, graphs, and animated vectors
- Hear and measure sound volumes, sound frequencies, and Doppler effects
- Create visually appealing presentations by attaching graphics to objects

Easy Curriculum Integration:

- Wide range of ready-to-use exercises
- Quickly customize existing models to meet specific needs
- Create and share models with teachers and students
- Compare simulation data with theoretical results
- Show properties of objects not seen in a lab, for example, vectors or the path of a body

Tangent Scientific

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Complete Curriculum Support:

• High school and college ancillary support, with supplementary exercises, and activities for easy lesson planning and grading
• Excellent in-class demonstrations
• The homework edition allows students to work at home and exchange assignments electronically with teacher and other students.

Languages available:

English, Dutch, French, German, Greek, Italian, Japanese, Korean, Portuguese (Brazilian), Russian, Spanish

Includes:

• Windows/Macintosh hybrid CD
• 150+ pre-made physics experiments
• Printed user manual
• Curriculum workbook with 34 experiments
• Black-line master student edition (for 10+ users)

System Requirements:

Windows:

Microsoft Windows NT 4.0 or Windows 95/98/Me/2000/XP
16 MB RAM minimum, 60 MB hard disk space
CD-ROM Drive
Sound card for sound experiments

Macintosh:

PowerPC-based system, MacOS System 7.1 or above
32 MB of physical RAM, 60 MB hard disk space
CD-ROM Drive

List Price:

Interactive Physics 2005, Hybrid CD, Single User
Item: 99000101 Price: $249.00

Interactive Physics 2005, Hybrid CD, 5 User
Item: 99000105 Price: $695.00

Interactive Physics 2005, Hybrid CD, 10 User
Item: 99000110 Price: $899.00

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About Tangent

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Tangent Scientific accepts official purchase orders from recognized institutions. We require prepayment for individuals, home-schoolers, and businesses. You may place a purchase order with Tangent by e-mail, mail, fax, or telephone.

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At your request software can be previewed and evaluated before you commit to the purchase – just by calling 1-800-363-2908. Previews are full, complete versions of the program that are made available to interested educators for a trial period of 15 days without the need for an official purchase order. Call for further details!

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Technical Support:

For technical assistance please complete the Support Form on our webpage.