

Computers in Physics

Tenth Anniversary CIP Educational Software Directory

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Tenth Anniversary CIP Educational Software Directory

Prepared in conjunction with the
Physics Courseware Evaluation Project in the
Department of Physics at North Carolina State University
by Margaret H. Gjertsen and John S. Risley

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The information in this software directory is based on information supplied by the vendors and, in some cases, by independent sources. Computers in Physics can assume no responsibility for its accuracy. Readers requiring more information about a particular product should refer to the alphabetical listing of software publishers and distributors.



Ten Years of Tracking Physics Educational Software

It is hard to believe, but it has been a decade since we published the first official list of physics courseware. As *Computers in Physics* gets ready to celebrate its tenth anniversary, it is fitting to reflect on how far educational physics software has advanced since 1987. What has become of that original physics courseware? Does any of it still exist? Has one product been transformed into another, or did an old idea give a spark to a new author's concept?

We know that the half-life of hardware is approximately 18 months. It is reasonable to expect that software would have a similar half-life, if not just for the sake of compatibility.

Since our first list was published, the number of common hardware systems has decreased to two—the Macintosh and the IBM-compatible personal computer (PC). Gone are the Atari, the Commodore 64, the Commodore Pet, and Radio Shack's TRS-80. The Apple II is still used, but no new software has been developed for it in years. A few publishers and many distributors still offer Apple II programs, but the demand is minimal.

The Macintosh was just appearing on the scene in 1987, and hard drives were being touted as the latest upgrade for the IBM PC. Now Macs and PCs have CD-ROM drives, gigabyte hard drives, and high-speed access to local- and wide-area networks. E-mail connects people the way only telephones once could. Improved technology has made the computer mainstream in homes and schools as well as offices, but it has also brought about some unforeseen complications. The issue of where software programs are stored and maintained is becoming blurred as servers in classrooms, departments, and on the Internet make distinctions difficult.

The 1987 list included 900 programs. In this issue of *Computers in Physics*, we list 550. These figures, which suggest a reduction in courseware, are misleading. Over the years we have changed the criteria for programs that can and should be included in the directory. Initially, we listed mathematical, statistical, and graphing packages as well as astronomy software. By excluding these major categories, we have reduced the overall number of packages in the *CIP* directory, whereas the total number of physics educational-software programs has remained steady for the past 10 years.

Very few titles are listed in both the 1987 and 1997 directories. Notable exceptions are Vernier's Graphical Analysis, Cross Educational Software's physics series, the Microphys collection, TRO's Plato Physics 1 and 2, and Physics Academic Software's Spacetime. (See the next article "Secrets of Software Longevity: Then and Now" for a prognosis on these titles.)

A lot of software is gone, and in some respects this is unfortunate. Only a few publishers and distributors offer old software, which is now of interest primarily for historical purposes. Many poor approaches were used in the past, and we could learn from these failures. It is painful to see new authors writing Java script for Web-based materials making the same mistakes as eager computer programmers who wrote software for the Apple II.

The number of publishers has remained roughly constant. Some have changed their names, and others have disappeared completely. New companies

have sprouted from a variety of places. In 1987 we listed 122 publishers; this year we include 121. Fifty-eight are found in both lists.

The types of publishers remain virtually unchanged as well. There are those enterprises that offer a solid core of physics educational software such as Physics Academic Software, Cross Educational Software, and Legal; publishers who have concentrated on refining one product such as Interactive Physics by Knowledge Revolution and ProSolv by Problem Solving Concepts; book publishers who start software projects, let the titles go out of print, and start new projects; equipment manufacturers who sell a multitude of microcomputer-based laboratory (MBL) devices such as Vernier Software, PASCO, and Team Labs; distributors who sell to a diverse and unlikely customer base; and individuals who have written software that they sell themselves.

It is surprising that the marketplace has not been winnowed down to a few major software publishers and several minor players. If we review the list of products offered and weigh the "educational" value of each, we conclude that there are about one dozen major publishers and two dozen minor ones; the rest are only peripherally involved with the physics market.

Ten years ago many educational projects associated with software development were supported by IBM and Apple. Now it appears that most are supported by private funds from smaller companies or by individual physics teachers and programmers interested in physics. Except for a few notables like John Wiley & Sons's CUPS collection and some MBL equipment, the educational-software programs currently being marketed in physics have not been produced as a result of U.S. government funding.

The number of programs and publishers may have remained constant over the past decade, but the one aspect that has definitely changed is the medium. Ten years ago we were excited about 3.5-in. diskettes. Currently, publishers rush to put their product on "multimedia" CD-ROMs. The software of 1987 was mostly menu-driven and lacked flexible navigation. Only a few programs used a mouse. There was no video. Today's software is slicker. It typically sports a better user interface. Screen resolution is clear enough to display Greek letters and symbols commonly used in physics problems. Graphics are vividly colored and sometimes rival photographic quality. Motion is still somewhat jerky, however, and we are still waiting for computer speed and memory to solve this problem.

The next stage of the computer revolution is taking place on the World Wide Web. Developers are scurrying to come up with compatible materials—they do not know how they will get a return on their investments, but they recognize that they must do something to stay in the game. I foresee that most computer-based materials will eventually be delivered on the Web. Homework grading and analysis will become standard over the Internet. By offering simple, yet thought-provoking problems for students to solve, we will encourage them to search for additional knowledge to solve the problem. The convenient hyperlink navigation schemes shown by Netscape and other browsers will make it easy to provide a variety of learning tools—for example, an animation of the motion so students can visualize what is going on; Socratic questioning to help them to discover the appropriate solution method; and a computer experiment to test their understanding.

It will be exciting to watch as our physics software evolves along with technology into the next millennium. One thing is more certain than ever: Educational courseware has found a permanent niche in the physics classroom of today—and tomorrow.

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John S. Risley, Director
*Physics Courseware Evaluation Project
North Carolina State University*

Secrets of Software Longevity: Then and Now

Graphical Analysis maintained a simple interface that changed with platform capability over time.

Some physics educational software packages have a much longer “shelf life” than others. Notable examples of long-lived software are Graphical Analysis by Vernier Software; the physics series by Cross Educational Software; the Microphys collection; Spacetime, first distributed by its author and later by Physics Academic Software; and TRO’s Plato Physics 1 and 2. Here we describe why such programs have extra staying power.

The case of Graphical Analysis is simple. It was ideal for physics teachers who needed a very low site-license price, and it maintained a simple interface that changed with platform capability over time. We first reviewed this program in

1986, and it has been a perennial favorite ever since (see Ref. 1; references appear on p. 59). Whenever we ask a group of teachers what software they use in their physics classrooms, the first answer is always Graphical Analysis. The physics teachers knew they needed to offer a better way for their students to graph data. Hand graphing was too tedious, too difficult to modify, and too inaccurate to determine the best-fit line. Graphical Analysis was simple to use and included the graphing tools needed for introductory physics courses. It evolved from a menu-driven program, first available on the Apple II and then in MS-DOS, to a mouse-driven package for the Macintosh and Windows-based personal computers. Vernier Software continually updated the interface, kept it easy to use, and thereby earned a “ten-year” position in the physics classroom.

Similarly, the General Physics Series from Cross Educational Software was offered more than ten years ago for the Apple II and, already in the 1987 directory, was available for MS-DOS. We re-reviewed several of these tutorials in *The Physics Teacher’s Courseware Review* column over a decade ago.^{2–5} Today, Cross still offers the original twelve tutorials along with several other titles, and most are available for both the Macintosh and DOS. These programs have been supported and updated. They present tutorials, text with some graphics, and some interactivity. The software is showing its age, both in computer graphics and pedagogy, but it fills a need in some physics classrooms. The tutorials are easy to use, especially for remedial work or for students who need to complete make-up work.

We reviewed Microphys’s Introductory Physics I package in 1987.⁶ We called it a tutorial and testing program for high-school and introductory university physics. It is a text-based “problem deliverer.” It was designed so that a student could go to the computer, get a problem, go back to his or her desk to solve it, return to the computer to enter the answer, and get a grade. Why has this old-fashioned set of programs lasted so long? Perhaps it is the commitment of the publisher to keep providing a product that a few educators will still buy. Or maybe it is because these programs run on Apple IIs and floppy-disk-based PCs,

which means that schools with older computers can run them.

In the 1987 directory, Spacetime Diagram listed author Edwin F. Taylor as the publisher and was available only for the Macintosh. Taylor sold copies for several years, and in 1988, Spacetime was published for the Macintosh and PC as part of the proceedings for the conference on Computers in Physics Instruction.⁷ In 1989, Spacetime for the PC was one of the first packages published by Physics Academic Software (PAS). Spacetime for the Macintosh followed in 1992. In 1990, Richard Smith offered a relativity course over Bitnet called "Spacetime: Special Relativity." Students and a supervising faculty member signed up for the one-semester course, which was managed using an electronic discussion group. Projects and exercises required the use of Spacetime and another of Taylor's programs—Relativistic Collision. Variations of this course continue today.⁸ Spacetime won the 1988 EDUCOM/NCRPTAL award and the 1990 *Computers in Physics* software award. A post-use review by John Gastineau appeared in *Computers in Physics* in 1991.⁹

What is the magic behind its longevity? This software works. Taylor combines a gifted teaching ability with a sound knowledge of computer programming. His computer-based tool brings the mystery of a difficult subject within reach of a beginning student. Relativity still is not easy to teach or learn. You can be easily confused by its many paradoxes. The software does not "teach you relativity" any more than a pencil teaches you to draw, but the combination of a course, a book, and a guided exploration with Spacetime works.

No look back would be complete without mentioning Control Data Corporation's (CDC's) Plato Physics 1 and 2.¹⁰⁻¹² CDC first marketed Physics 1 in 1983 on the company's own brand of workstation, the Control Data 110, and then ported it *en masse* to the IBM PC in 1985. CDC's Plato Physics is a comprehensive tutorial in engineering physics. It was a Herculean effort by a team of educators and programmers and remains unique in physics software. It tutors students in problem-solving for calculus-based mechanics, electricity, and magnetism with incredible amounts of help and diagnostics. To accomplish this task, the computer directs the student to solve problems in a specific way. There are many steps, and they all have to be performed. Many educators today and even 28 years ago have found fault with this method.¹³ The emphasis at present is on giving the learners control of the computer. Software that does not follow this approach is often criticized. However, software that is too free with hyperlinks and multimedia often results in aimless wandering by the student. The debate continues. Anyone designing physics software should arrange to see Plato Physics 1 or 2 and consider whether there are circumstances in which it may be appropriate to direct a student so pointedly.¹⁴

CDC sold the rights to Plato Physics 1 and 2 to TRO. TRO added management and network delivery, but the underlying tutorials are essentially unchanged and still available more than ten years after their release. Why have they lasted? Because they appear to teach problem solving. While you are involved with one of the modules, you get the feeling you could be learning physics intravenously. There is no other software even similar as far as its power to "teach." The major problem arises when students walk away—then the physics remains in the computer, and the students are once again powerless.

Considering these examples, we see that the secrets of longevity are many. Fulfilling a need, appropriate pricing, continual updating, compatibility with inexpensive and commonly available computers, long-term author and/or publisher support, exceptional pedagogy, and satisfying the users' sense of achievement: these are among the key ingredients that future developers also should be striving to provide.

Taylor's
computer-based
tool brings
the mystery of a
difficult subject
within reach
of a beginning
student.

John S. Risley and Margaret H. Gjertsen
Physics Courseware Evaluation Project

About This Directory

Major textbook publishers often also have innovative software projects.

This biennial directory of physics educational software lists 550 software titles from more than 100 publishers and distributors. We include software that is either designed or judged suitable for teaching physics at the high-school or university level. The content and level range from introductory physics to graduate-level instruction. Many packages span a variety of levels, and the quality and content vary widely.

If you are interested in using physics educational software, you will have to review each package carefully to see if it fits your teaching style or your students' approach to learning. The directory is meant to serve as a starting point and make it easier for you to find the vendors of programs you hear about in meetings and from colleagues. Some of the most popular software packages are described in published reviews; check out previous issues of *Computers in Physics*, especially the results of the annual software contest in the November/December issues.

You can also find reviews in the *Physics Courseware Communicator*, a quarterly newsletter.¹⁵ This newsletter offers both in-depth and short reviews, comparisons, brief news items, interesting World Wide Web sites, physics electronic-discussion groups, issues, and timely essays by physics educators. Another source of software reviews is the CTI Physics project in the United Kingdom.¹⁶ CTI Physics publishes a newsletter and has a World Wide Web site at <http://www.ph.surrey.ac.uk/cti>. Reviews of physics software can also be found in *The Physics Teacher* and, occasionally, in the popular computing journals.

In the following, when we mention specific examples of software, you should not construe this to mean that these programs are the only or best choices. The concept of "good" software is a subjective one and hinges on individual needs and styles. The reviews we publish in the *Physics Courseware Communicator* are more indicative of popular, useful titles for physics instruction.

Our first directory of software was published in 1987 in *The Physics Teacher*,¹⁷ and subsequent versions appeared in *Computers in Physics* in 1991, 1993, and 1995.^{18–20} The 1991 directory was the last to include Apple II software information. This year marks the first time that we have distinguished between MS-DOS and Windows programs and identified CD-ROM products.

The software is listed by subject matter. The subject classifications are Mechanics, Energy, Thermodynamics, Waves, Electricity and Magnetism, Optics, Modern Physics, Nonlinear Dynamics, Physics Lab, and Physics Tools. One catch-all category, Physics, is provided for programs that do not fit into a single category but include material in two or more categories.

Programs listed under Physics Tools are programming languages and aids, graphing utilities, guides to computational packages for physics exploration, and modeling programs. These programs are aimed primarily at physics, but many are computer tools that can help you to teach physics better.

The Physics Lab category lists software for controlling the collection of real-world data through hardware interfaces. These systems of hardware and software

are generally called microcomputer-based laboratories (MBLs). In 1995, this category appeared as a separate directory, an extensive listing of interfaces and supplementary equipment that is still a valuable resource.²¹ However, for completeness, we are again including Physics Lab programs together with other educational software in the present directory. See this category for pointers to the major suppliers of MBL equipment.

Several subject areas were omitted this year—for example, astronomy. So many computer astronomy programs exist that we must refer you to other sources of information in this area,²² instead of listing the individual programs here. Mathematical software such as graphing, symbolic-math, and data-analysis programs, as well as various spreadsheet packages, is also not included in this directory. You can find reviews and product announcements for such programs in the computing magazines and on their Web sites.²³ The Physics Tools category lists only those programs that are particularly oriented toward physics.

Each entry within a subject area includes the program's publisher, title, operating system, and single-user price. It is important to know the publisher, because authors are seldom identified and different programs may have the same title. For instance, both Vernier Software and Cross Educational Software publish programs called Motion, and the two programs are completely different. For the title Quantum Mechanics there are three publishers: Springer-Verlag, Academic Press, and Intellimation. Certain distributors refuse to list the publisher's name in their catalogs. This leads to confusion. If we could not determine the publisher, we list a distributor. If the publisher is not a source for purchasing the product, the address for that publisher has an "in care of" line listing a distributor.

The computer operating systems are Macintosh, DOS, and Windows. Occasionally, a title is available only for 32-bit Windows. These titles are listed with a Windows 95 operating system. If the package comes on CD-ROM, this information is included in the computer category. Many publishers offer a disk version of their CD-ROM based software for those without a CD-ROM drive. You should call the publisher to inquire about this option.

We list the single-copy price for educators. Multicopy and site licenses are commonly available.

The mailing addresses and phone numbers for all the software publishers and distributors can be found on p. 74. We also provide Web and e-mail addresses when these are available.

Recent developments in physics software

Digital video analysis has arrived. In the 1995 directory, we mentioned that video-analysis programs were on the horizon. Now they are in the classroom. The present directory lists seven packages for analyzing digitized video: VideoGraph and CUPLE from Physics Academic Software, VideoPoint from PASCO/Lenox Softworks, World in Motion from Physics Curriculum and Instruction, Multimedia Motion from Cambridge Science Media, Measurement in Motion from Learning in Motion, and HIP Physics from Tom Snyder Productions. These packages were reviewed in previous issues of the *Physics Courseware Communicator*.²⁴ Digitizing video for analysis is not an activity for the meek, but for those who want a little excitement in their classroom and have the time to digitize the movies, try analyzing Michael Jordan's "hang time," an F-14's landing speed on an aircraft carrier, or the g-force in the pirate-ship carnival ride.

Physics Academic Software, a publishing project of the American Institute of Physics, continues to cultivate and distribute an extensive peer-reviewed collection of physics-teaching software. Many of the PAS packages had their start as programs written by instructors who had special needs in their own classrooms. Such programs tend to reflect new thinking in pedagogy and succeed at their specific goals particularly well. However, those goals may not be consistent with all curricula. By publishing a dozen new titles and several new versions of older pack-

Calculator-based laboratories (CBLs) are proving to be popular because of their low cost.

Legal continues to offer a comprehensive suite of software programs with huge amounts of curricular material.

ages in the last two years, PAS has become a leading source of teaching software.

Major textbook publishers often also have innovative software projects. Current materials are easy to obtain. However, back-listed titles, even from last year, are extremely difficult to order unless you know the ISBN number. Although the ISBN numbers are not included in this directory, most major book publishers list titles in print on the Web. The sites are searchable, and so you can find the ISBN numbers fairly easily.

Legal continues to offer a comprehensive suite of software programs with huge amounts of curricular material. These offerings, like several others from other distributors, originated in Israel and show originality in programming coupled with a strong pedagogical approach. Of further international note, there are impressive software programs from the United Kingdom, SToMP for example, that seem to be written as part of projects directed by a few key individuals with government support.

The Consortium for Upper-Level Physics Software (CUPS) project has published its nine software packages with John Wiley & Sons. CUPS software has been well received, especially in England. It is designed for classroom adoption, which keeps the price reasonable for individual copies. All the core upper-division physics subjects are covered along with many supplementary topics such as astrophysics, nuclear and particle physics, statistical physics, and solid-state physics.

Knowledge Revolution has formed partnerships with several book publishers to create Interactive Physics workbooks. These contain user-controlled simulations that students can use for hands-on exercise. Future Graph and Problem Solving Concepts are also moving in this direction.

CD-ROM packages are proliferating. In some cases, however, publishers appear to be putting software on compact discs and calling it "multimedia" just to sell it.

The use of personal computers in the laboratory continues to grow. The important MBL developments are more powerful Windows applications that allow students to point and click for data acquisition and analysis. Advances in rotary-motion probes allow students to take precise rotational data for all kinds of Atwood-machine setups, with and without friction.

Calculator-based laboratories (CBLs) are proving to be popular because of their low cost. Many introductory classes require students to purchase Texas Instruments graphing calculators, some of which are CBL-compatible. Such calculators allow students to take data with inexpensive probes and perform rudimentary analysis. We are not certain that the calculators will really replace MBL computers. Small screens, limited keyboards, and lack of program storage make using these devices an arduous task.

Future developments

We are just starting to see books published that use electronic data or simulation code that is available only from the Web. Two years from now we expect to report on commercial Web-delivery systems that include comprehensive testing, simple yet effective simulations using Java, and plug-ins to a variety of software programs.

What is still missing is that elusive physics program—the "killer app" for physics teaching—that we have dreamed about for years. It would be a comprehensive, universally appealing package and would provide teachers with feedback on how well their students are learning. Ideally, it also would offer practice problems, hints, solutions, problem-solving strategies, context-sensitive simulations, videos, and references in a format that is easy for students to navigate. Is anyone game?

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<i>Computers in Physics</i>	http://www.aip.org/cip/
<i>Scientific Computing & Automation</i>	http://www.scamag.com/
<i>MacWorld</i>	http://www.macworld.com/
<i>MacUser</i>	http://www.zdnet.com/macuser/
<i>PC World</i>	http://www.pcworld.com/home/
<i>PC Magazine</i>	http://www.pcmag.com/
<i>Byte</i>	http://www.byte.com/
<i>PC Computing</i>	http://www.zdnet.com/pccomp/
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Physics

Publisher	Title of Product	Computer	Price
Addison-Wesley Publishing Co.	<i>ActivPhysics 1 (coming soon)</i>	Mac/Win	
Addison-Wesley Publishing Co.	<i>ActivPhysics 2 (coming soon)</i>	Mac/Win	
Addison-Wesley Publishing Co.	<i>Envision</i>	DOS	\$ 100
Addison-Wesley Publishing Co.	<i>Powersolver Software</i>	Mac	\$ 99
CASL	<i>Physics Quizelle Resources</i>	Mac/Win	\$ 195
CASL	<i>Quizelle - The Electronic Chalkboard</i>	DOS	\$ 295
Cliffs Notes	<i>StudyWare for Physics</i>	Mac/DOS	\$ 32
Cross Educational Software	<i>Physics Activity Set</i>	Mac/DOS	\$ 35
Educational Images Ltd.	<i>Physics Term Tutor</i>	DOS	\$ 40
Finson	<i>Exploring Physics (coming soon)</i>	Win	\$ 40
fun@learning.com	<i>fun@learning.com</i>	Mac/Win	\$ 29
G. Tek Technologies	<i>Visual Physics</i>	DOS	
Glencoe/McGraw-Hill	<i>Physics for the Computer Age</i>	Mac/Win CD-ROM	\$ 650
GlobalView	<i>Physics Simulations: Mechanics M2</i>	DOS	\$ 25
Harper Collins Interactive	<i>The Cartoon Guide to Physics</i>	Win CD-ROM	\$ 40
Hearlihy & Co.	<i>Principles of Technology Software</i>	Mac/DOS	\$ 1000
J & S Software	<i>The Physics Test Maker</i>	DOS	\$ 125
J. M. LeBel Enterprises	<i>Physic-AL Computer Disk</i>	DOS	\$ 90
J. M. LeBel Enterprises	<i>Physic-AL Computer Test/Homework Program and Test Bank</i>	DOS	\$ 574
John Wiley & Sons	<i>Calculus Connections: A Multimedia Adventure Modules 1-8</i>	Win CD-ROM	\$ 35
John Wiley & Sons	<i>Calculus Connections: A Multimedia Adventure Modules 17-24</i>	Win CD-ROM	\$ 35
John Wiley & Sons	<i>Calculus Connections: A Multimedia Adventure Modules 9-16</i>	Win CD-ROM	\$ 35
John Wiley & Sons	<i>CD-Physics</i>	Win	\$ 80
John Wiley & Sons	<i>Interactive Conceptual Examples</i>	DOS	\$ 40
John Wiley & Sons	<i>Interactive Learning Ware Volume 1</i>	Mac/DOS	\$ 29
John Wiley & Sons	<i>Interactive Learning Ware Volume 2</i>	Mac/DOS	\$ 29
Knight-Ridder Information	<i>Encyclopedia of Physical Science and Technology</i>	Mac/Win CD-ROM	\$ 2625
Knowledge Factory	<i>Knowledgebase Physics 1A</i>	Mac/DOS/Win	\$ 400
Knowledge Factory	<i>Knowledgebase Physics 1B</i>	Mac/DOS/Win	\$ 400
MathSoft	<i>StudyWorks! for Schools</i>	Mac/Win CD-ROM	\$ 70
MathSoft	<i>StudyWorks! for Science</i>	Mac/Win CD-ROM	\$ 40
McGraw-Hill	<i>Multimedia Enhanced Physics Instruction (coming soon)</i>	Win CD-ROM	\$ 41
MECC	<i>Science Sleuths Vol. 1</i>	Mac/Win CD-ROM	\$ 79
MECC	<i>Science Sleuths Vol. 2</i>	Mac/Win CD-ROM	\$ 79
Microphys Programs	<i>Introductory Physics I Package</i>	DOS	\$ 200
Microphys Programs	<i>Introductory Physics II Package</i>	DOS	\$ 200
Microphys Programs	<i>Physics and Chemistry Utility Programs</i>	DOS	\$ 150
Physics Academic Software	<i>CUPLE 2.0</i>	Win	\$ 500
Physics Academic Software	<i>Dynamic Analyzer</i>	DOS	\$ 110
Physics Academic Software	<i>PEARLS 3.0</i>	Mac/Win	\$ 275
Physics Academic Software	<i>Physics Demonstrations</i>	DOS	\$ 50
Physics Academic Software	<i>Physics Simulation Programs</i>	DOS	\$ 50
Physics Courseware Evaluation Project	<i>The Conference on Computers in Physics Instruction: Software</i>	Mac/DOS	\$ 90
Prentice Hall	<i>Interactive Journey Through Physics (coming 1997)</i>	Mac/Win	\$ 30
Prentice Hall	<i>Interactive Physics Player for Fishbane</i>	Mac/Win	\$ 27
Prentice Hall	<i>Interactive Physics Player for Giancoli</i>	Mac/Win	\$ 27
Prentice Hall	<i>LOGAL Run-Time Physics Explorer for Fishbane</i>	Mac/Win	\$ 25

Physics Continued...

Publisher	Title of Product	Computer	Price
Prentice Hall	<i>LOGAL Run-Time Physics Explorer for Giancoli</i>	Mac/Win	\$ 25
Prentice Hall	<i>Mathematica Exercises in Introductory Physics</i>	Mac/Win	\$ 26
Prentice Hall	<i>Physics: A Window on Our World, Bolemon, Student Learning Guide</i>	Mac/Win	\$ 20
Problem Solving Concepts	<i>ProSOLV</i>	Mac/Win	\$ 295
Projected Learning Programs	<i>Comprehensive Physical Science</i>	Mac/Win CD-ROM	\$ 360
Projected Learning Programs	<i>Comprehensive Physics</i>	Mac/Win CD-ROM	\$ 825
Projected Learning Programs	<i>Physics Lessons and Calculation Practice</i>	DOS	\$ 200
Projected Learning Programs	<i>Physics Visual Self Help</i>	Mac/Win	\$ 220
Projected Learning Programs	<i>Physics Visual Testmaker</i>	Mac/Win	\$ 220
Projected Learning Programs	<i>Physics Vocabulary Testmaker</i>	Mac/Win	\$ 150
Projected Learning Programs	<i>Professional Physics Test Generator</i>	DOS	\$ 126
Projected Learning Programs	<i>PT-Applied Physics Units 1-7</i>	Win CD-ROM	\$ 552
Projected Learning Programs	<i>PT-Applied Physics Units 8-14</i>	Win CD-ROM	\$ 552
Projected Learning Programs	<i>SuperStar Science CD</i>	Mac	\$ 60
Projected Learning Programs	<i>Visual Physics Library</i>	Mac/DOS	\$ 476
PT Distribution	<i>Albert: advanced physics</i>	Win	£74.22
PT Distribution	<i>Albert: core physics</i>	Win	£74.22
Queue	<i>Learning All About Heat & Sound</i>	Mac/DOS CD-ROM	\$ 75
Queue	<i>Learning All About Matter</i>	Mac/DOS CD-ROM	\$ 95
Saunders College Publishing	<i>f(g) Scholar Student Version</i>	Mac/DOS/Win	\$ 47
Saunders College Publishing	<i>Interactive Physics II Student Version</i>	Mac/Win	\$ 33
Saunders College Publishing	<i>Physics: The Core (coming soon)</i>	Mac/Win CD-ROM	
Saunders College Publishing	<i>SD2000</i>	Mac/Win CD-ROM	\$ 26
Scientia	<i>Cadeceus MCAT Review</i>	Mac/Win CD-ROM/Web	\$ 125
Scientific American	<i>A Brief History of Time</i>	Mac/Win CD-ROM	\$ 50
Snowflake Software	<i>Test Quest Physics Disk</i>	DOS	\$ 50
Stewart Software	<i>Creative Physics</i>	Win	\$ 199
Stewart Software	<i>Creative Physics 3.0</i>	Win 95	\$ 259
SToMP Project	<i>SToMP</i>	Win	£35
Telos	<i>Visualization of Natural Phenomena</i>	Mac CD-ROM	\$ 60
The Learning Team	<i>Physics Infomall</i>	Mac/Win	\$ 295
The Princeton Review	<i>Science Smart</i>	Mac/Win	\$ 30
Visual Systems	<i>Physics Lab Simulator</i>	Mac/DOS/Win	\$ 139
W. W. Norton & Company	<i>The Essence of Physics</i>	Mac/Win	\$ 30
W. W. Norton & Company	<i>The Norton Student Version of ProSolv</i>	Win	\$ 24
William K. Bradford Publishing Co.	<i>Advanced Physics</i>	Mac/Win	\$ 132
William K. Bradford Publishing Co.	<i>CASTLE Physics</i>	DOS	\$ 135
William K. Bradford Publishing Co.	<i>Physics Testbank with Science Test Builder</i>	Mac	\$ 99
Zephyr Services	<i>Physicalc</i>	DOS	\$ 30
Ztek Co.	<i>Cinema Classics Software</i>	Mac/DOS	\$ 100

Mechanics

Publisher	Title of Product	Computer	Price
Addison-Wesley Publishing Co.	<i>Interactive Physics Simulations</i>	Mac/Win	\$ 40
Addison-Wesley Publishing Co.	<i>Multimedia Engineering Dynamics</i>	Mac/Win	\$ 35
Addison-Wesley Publishing Co.	<i>The Student Edition of Working Model by Knowledge Revolution</i>	Mac/Win	\$ 60
American Assoc. of Physics Teachers	<i>Guilty or Innocent? You Be a Car Crash Expert</i>	Mac	\$ 34
American Assoc. of Physics Teachers	<i>Rockets</i>	Mac	\$ 34

Mechanics Continued...

Publisher	Title of Product	Computer	Price
Britt Communications	<i>Space Shuttle Physics: Newton's Laws of Motion</i>	Mac	\$ 40
BTL Publishing	<i>Earth & Universe</i>	Win CD-ROM	\$ 255
BTL Publishing	<i>Forces & Effects</i>	Win CD-ROM	\$ 255
Cambridge Science Media	<i>Multimedia Motion</i>	Win	\$ 75
COMPress	<i>Force and Motion</i>	Mac/DOS	\$ 70
COMPress	<i>Momentum and Work</i>	Mac/DOS	\$ 70
Cross Educational Software	<i>Accelerated Motion</i>	DOS	\$ 35
Cross Educational Software	<i>Adding Velocities</i>	DOS	\$ 35
Cross Educational Software	<i>Circular Motion</i>	Mac/DOS	\$ 35
Cross Educational Software	<i>Conservation Laws</i>	Mac/DOS	\$ 35
Cross Educational Software	<i>Fluids</i>	Mac/DOS	\$ 35
Cross Educational Software	<i>Motion</i>	Mac/DOS	\$ 35
Cross Educational Software	<i>Orbital Maneuvers</i>	DOS	\$ 35
Cross Educational Software	<i>Sound Waves</i>	Mac	\$ 35
Cross Educational Software	<i>Statics</i>	Mac/DOS	\$ 35
Educational Images Ltd.	<i>Studies in Motion</i>	DOS	\$ 100
EME	<i>Laws of Motion</i>	Mac/DOS	\$ 137
EME	<i>Projectile Motion</i>	Mac	\$ 64
Estes Industries	<i>PC Aerotrek</i>	DOS	
Estes Industries	<i>PC Astrocad: Performance Analysis for Model Rockets</i>	DOS	
GlobalView	<i>Physics Simulations: Mechanics M1</i>	DOS	\$ 25
GlobalView	<i>Physics Simulations: Mechanics X1</i>	DOS	\$ 25
GlobalView	<i>Physics Simulations: Mechanics X2</i>	DOS	\$ 25
Harter, Dr. William G.	<i>BounceIt</i>	Mac	\$ 45
Harter, Dr. William G.	<i>OscillIt</i>	Mac	\$ 45
Harter, Dr. William G.	<i>SpinIt</i>	Mac	\$ 25
Hearlihy & Co.	<i>Applied Physics Fundamentals</i>	Mac/DOS	\$ 170
Hearlihy & Co.	<i>Flight Simulation Package</i>	Mac/DOS	\$ 65
Intellimation	<i>Physics Modules: Acceleration, Projectile, and Waves</i>	Mac	\$ 49
Intellimation	<i>Physics Simulations I—Mechanics</i>	Mac	\$ 59
John Wiley & Sons	<i>Classical Mechanics Simulations: CUPS</i>	DOS	\$ 43
Knowledge Revolution	<i>Interactive Physics 2.5</i>	Mac/Win	\$ 249
Knowledge Revolution	<i>Interactive Physics 3.0</i>	Mac/Win95	\$ 249
Knowledge Revolution	<i>Working Model 2D</i>	Mac/Win	\$ 295
Knowledge Revolution	<i>Working Model 3D</i>	Win	\$ 495
Learning in Motion	<i>Measurement in Motion</i>	Mac CD-ROM	\$ 224
Logal	<i>Physics Explorer: Gravity</i>	Mac/Win	\$ 199
Logal	<i>Physics Explorer: Harmonic Motion</i>	Mac/Win	\$ 199
Logal	<i>Physics Explorer: One Body</i>	Mac/Win	\$ 199
Logal	<i>Physics Explorer: Two Bodies</i>	Mac/Win	\$ 199
McGraw-Hill	<i>Vector Mechanics for Engineers Statics</i>	Win	\$ 80
MECC	<i>Wood Car Rally</i>	DOS	\$ 59
Microphys Programs	<i>Computer-generated Exams & Homework—18 Units</i>	DOS	\$ 450
Microphys Programs	<i>Physics Laboratory Experiments: Unit A Mechanics I</i>	DOS	\$ 100
Microphys Programs	<i>Physics Laboratory Experiments: Unit B Mechanics II</i>	DOS	\$ 100
Microphys Programs	<i>Physics Laboratory Experiments: Unit C Mechanics III</i>	DOS	\$ 100
Pacific Crest Software	<i>PC: Solve—Physics Courseware</i>	DOS	\$ 30
Physics Academic Software	<i>Conceptual Kinematics</i>	Mac/DOS	\$ 140
Physics Academic Software	<i>Freebody</i>	Mac/DOS	\$ 140
Physics Academic Software	<i>Graphs & Tracks</i>	Mac/DOS	\$ 140
Physics Academic Software	<i>Newtonian Sandbox</i>	Mac/DOS	\$ 80

Mechanics Continued...

Publisher	Title of Product	Computer	Price
Physics Academic Software	<i>Objects in Motion</i>	Mac/DOS	\$ 175
Physics Academic Software	<i>Orbits</i>	DOS	\$ 70
Physics Academic Software	<i>Physics of Oscillations</i>	DOS/Win	\$ 100
Physics Academic Software	<i>VideoGraph</i>	Mac	\$ 150
Physics Curriculum & Instruction	<i>World-In-Motion Version 2.0</i>	Win	\$ 159
Prentice Hall	<i>Interactive Mechanics: An Interactive Physics Workbook, Garcia (due '97)</i>	Mac/Win	\$ 22
Prentice Hall	<i>Interactive Physics II Player Workbook</i>	Mac/Win	\$ 28
Queue	<i>Learning About Force and Motion</i>	Mac/Win CD-ROM	\$ 75
Queue	<i>Learning All About Machines & Mechanics</i>	Mac/DOS CD-ROM	\$ 75
Queue	<i>Learning All About Motion</i>	Mac/DOS CD-ROM	\$ 95
R. J. Schwarz	<i>Inside/Out Physics</i>	Mac/Win CD-ROM	\$ 500
R. J. Schwarz	<i>Theme Park Physics</i>	Mac/Win CD-ROM	\$ 500
Ruiz, Dr. Michael J.	<i>Orbits</i>	DOS	\$ 8
Ruiz, Dr. Michael J.	<i>Resonance</i>	DOS	\$ 20
Saunders College Publishing	<i>Interactive Physics Simulations Disk</i>	Mac/Win	\$ 22
Snowflake Software	<i>Test Quest Mechanics Disk</i>	DOS	\$ 50
Sunburst Communications	<i>Mouselab</i>	Mac	\$ 130
Sunburst Communications	<i>Newton's Laws</i>	Mac/DOS (\$ 79.95)	\$ 100
Sunburst Communications	<i>Sir Isaac Newton's Games</i>	DOS	\$ 65
Sunburst Communications	<i>Socrates: Motion in One Dimension</i>	DOS	\$ 129
Sunburst Communications	<i>Socrates: Simple Harmonic Motion</i>	DOS	\$ 129
Sunburst Communications	<i>The Newtonian Sandbox: Motion Toys for Eye and Mind</i>	Mac/DOS	\$ 80
The 6502 Program Exchange	<i>Physics Disk 5: Harmonic Motions</i>	DOS	\$ 25
TRO Learning	<i>Physics I</i>	DOS	\$ 800
Vernier Software	<i>Orbit</i>	DOS	\$ 30
Vernier Software	<i>Projectiles</i>	DOS	\$ 30
William K. Bradford Publishing Co.	<i>Physics Topics: Force & Motion</i>	Mac	\$ 45
William K. Bradford Publishing Co.	<i>Physics Topics: Heat</i>	Mac	\$ 45
William K. Bradford Publishing Co.	<i>Physics Topics: Momentum & Work</i>	Mac	\$ 45
Wolfram Research	<i>Dynamic Visualizer</i>	Mac/Win	\$ 395
Wolfram Research	<i>Mechanical Systems</i>	Mac/Win	\$ 295

Energy

Publisher	Title of Product	Computer	Price
BTL Publishing	<i>Energy Resources</i>	Win CD-ROM	\$ 255
Hearlihy & Co.	<i>Energy Fundamentals Part 1 & 2</i>	Mac/DOS	\$ 225
Visual Systems	<i>Energy Flow</i>	Mac/Win CD-ROM	\$ 189
Visual Systems	<i>Producing Energy Software</i>	Mac/Win	\$ 159

Thermodynamics

Publisher	Title of Product	Computer	Price
COMPress	<i>Heat</i>	Mac/DOS	\$ 70
Cross Educational Software	<i>Thermodynamics</i>	Mac/DOS	\$ 35
IME Software	<i>Gassim</i>	Win	\$ 25

Thermodynamics Continued...

Publisher	Title of Product	Computer	Price
John Wiley & Sons	<i>Thermal & Statistical Physics Simulations: CUPS</i>	DOS	\$ 43
Jolls, Dr. Kenneth R.	<i>Equations of State</i>	DOS	\$ 400
Microphys Programs	<i>Physics Laboratory Experiments: Unit D Heat</i>	DOS	\$ 100
Physics Academic Software	<i>Thermodynamics Lecture Demos</i>	DOS	\$ 60

Waves

Publisher	Title of Product	Computer	Price
01dB	<i>Mediacoustic—Teaching Acoustics by Computer</i>	Win CD-ROM	\$ 300
COMPress	<i>Waves and Sound</i>	Mac/DOS	\$ 70
DYNACOMP Inc.	<i>Fast Fourier Transform Tutorial</i>	DOS	\$ 40
GlobalView	<i>Physics Simulations: Mathematics Analysis</i>	DOS	\$ 25
John Wiley & Sons	<i>Waves & Optics Simulations: CUPS</i>	DOS	\$ 40
Legal	<i>Physics Explorer: Ripple Tank</i>	Mac/Win	\$ 199
Legal	<i>Physics Explorer: Waves</i>	Mac/Win	\$ 199
Microphys Programs	<i>Waves & Superposition</i>	DOS	\$ 25
Physics Academic Software	<i>Wave Interference</i>	DOS	\$ 100
Physics Academic Software	<i>WaveMaker</i>	Mac	\$ 90
Prentice Hall	<i>The Physics of Waves</i>	Mac/DOS	\$ 69
Ruiz, Dr. Michael J.	<i>Fourier Analysis</i>	DOS	\$ 20
Ruiz, Dr. Michael J.	<i>Spectrogram</i>	DOS	\$ 15
Ruiz, Dr. Michael J.	<i>The Just Diatonic Scale</i>	DOS	\$ 10
Ruiz, Dr. Michael J.	<i>Wave Addition</i>	DOS	\$ 10
Snowflake Software	<i>Test Quest Waves Disk</i>	DOS	\$ 50
Sunburst Communications	<i>Socrates: Doppler Effect</i>	DOS	\$ 129
Sunburst Communications	<i>Socrates: Wave Interference</i>	DOS	\$ 129
The 6502 Program Exchange	<i>Physics Disk 2: Waves and Fourier Series</i>	DOS	\$ 25
William K. Bradford Publishing Co.	<i>Physics Topics: Light</i>	Mac	\$ 45
William K. Bradford Publishing Co.	<i>Physics Topics: Waves & Sound</i>	Mac	\$ 45

Electricity and Magnetism

Publisher	Title of Product	Computer	Price
Addison-Wesley Publishing Co.	<i>CircuitTutor</i>	Mac	\$ 25
Addison-Wesley Publishing Co.	<i>Electric Circuits</i>	DOS	\$ 69
Addison-Wesley Publishing Co.	<i>LogicWorks 3 Interactive Circuit Design Software</i>	Mac/Win	\$ 48
Addison-Wesley Publishing Co.	<i>The Student Edition of MicroCAP</i>	DOS	\$ 47
American Assoc. of Physics Teachers	<i>Fieldplots</i>	Mac	\$ 34
Beige Bag Software	<i>B2 Logic</i>	Mac/Win	\$ 125
Beige Bag Software	<i>B2 Spice 1.1</i>	Mac/Win	\$ 110
Beige Bag Software	<i>B2 Spice 2.0</i>	Win	\$ 125
BTL Publishing	<i>Advanced Animated Circuits</i>	DOS CD-ROM	\$ 420
BTL Publishing	<i>Animated Circuits</i>	DOS CD-ROM	\$ 150
BTL Publishing	<i>Electricity & Magnetism</i>	Win CD-ROM	\$ 255
BTL Publishing	<i>Understanding Electronic Circuits</i>	Win CD-ROM	\$ 255
Cambrix Publishing	<i>Electricity and Magnetism CD-ROM</i>	DOS	\$ 30

Electricity and Magnetism Continued...

Publisher	Title of Product	Computer	Price
Capilano Computing, Ltd.	<i>DesignWorks</i>	Mac/Win	\$ 748
Coastal Computer Co.	<i>CurrentMAKER</i>	DOS	\$ 70
Coastal Computer Co.	<i>LogicMAKER</i>	DOS	\$ 70
Coastal Computer Co.	<i>TransistorMAKER</i>	DOS	\$ 70
COMPress	<i>Electrical Charge and Direct Current</i>	Mac/DOS	\$ 70
COMPress	<i>Magnetism</i>	Mac/DOS	\$ 70
Cross Educational Software	<i>Electricity and Magnetism</i>	Mac/DOS	\$ 35
DesignWare Inc.	<i>Edison Version 1.04</i>	Win	\$ 49
DesignWare Inc.	<i>Toolkit for Interactive Network Analysis (TINA)</i>	Win	\$ 299
DYNACOMP Inc.	<i>Active Circuit Analysis Program</i>	Mac/DOS	\$ 40
DYNACOMP Inc.	<i>Logic Designer</i>	DOS	\$ 50
DYNACOMP Inc.	<i>Logic Simulator</i>	DOS	\$ 50
DYNACOMP Inc.	<i>Micro Logic II</i>	DOS	\$ 800
Falcon Software	<i>Electronics Laboratory Simulator</i>	Win	\$ 250
Falcon Software	<i>Electronics Laboratory Simulator Student Version</i>	Win	\$ 40
GlobalView	<i>Physics Simulations: E & M</i>	DOS	\$ 25
GlobalView	<i>Physics Simulations: Experimental</i>	DOS	\$ 25
Harter, Dr. William G.	<i>CoulIt</i>	Mac	\$ 25
Hearlihy & Co.	<i>Electronics Fundamentals</i>	Mac/DOS	\$ 110
Heathkit Educational Systems	<i>AC Electronics</i>	DOS	\$ 149
Heathkit Educational Systems	<i>DC Electronics</i>	DOS	\$ 149
Heathkit Educational Systems	<i>Electronic Circuits</i>	DOS	\$ 149
Heathkit Educational Systems	<i>Semiconductor Devices</i>	DOS	\$ 149
Institute of Physics Publishing	<i>Electric Circuit Theory</i>	DOS	\$ 39
Intellimation	<i>HyperElectronics</i>	Mac	\$ 39
Intellimation	<i>Physics Simulations II—Electromagnetism</i>	Mac	\$ 59
Intellimation	<i>Rescue Team</i>	Mac	\$ 19
Interactive Image Technologies Ltd.	<i>Electronics for Physics Students</i>	Mac/DOS/Win	\$ 39
Interactive Image Technologies Ltd.	<i>Electronics Testbench</i>	Win	\$ 99
Interactive Image Technologies Ltd.	<i>Electronics Workbench</i>	Mac/DOS/Win	\$ 299
Interactive Image Technologies Ltd.	<i>Electronics Workbench Student Edition</i>	Mac/DOS/Win	\$ 50
Interactive Image Technologies Ltd.	<i>Practical Teaching Ideas</i>	Mac/DOS/Win	\$ 29
Interactive Image Technologies Ltd.	<i>Troubleshooting with Electronics Workbench</i>	Mac/DOS/Win	\$ 29
Interactive Image Technologies Ltd.	<i>Understanding Electricity</i>	Mac/DOS/Win	\$ 19
ITE	<i>Applied Physics</i>	Win	\$ 80
ITE	<i>Basic Electronics—AC Circuits</i>	DOS	\$ 300
ITE	<i>Basic Electronics—DC Circuits</i>	DOS	\$ 250
ITE	<i>Basic Electronics—Digital Circuits</i>	DOS	\$ 150
ITE	<i>Basic Electronics—Integrated Circuits</i>	DOS	\$ 250
ITE	<i>Basic Electronics—Semiconductors</i>	DOS	\$ 300
ITE	<i>Computer Aided Training in Digital Systems (CASCAD)</i>	DOS	\$ 600
ITE	<i>Introduction to Electronics—Analog Devices</i>	DOS	\$ 400
ITE	<i>Introduction to Electronics—Digital Devices</i>	DOS	\$ 300
ITE	<i>Introduction to Electronics—Electricity</i>	DOS	\$ 300
John Wiley & Sons	<i>Electricity and Magnetism Simulations: CUPS</i>	DOS	\$ 43
Logal	<i>Physics Explorer: AC/DC Circuits</i>	Mac/Win	\$ 199
Logal	<i>Physics Explorer: Electrodynamics</i>	Mac/Win	\$ 199
McGraw-Hill	<i>Schaum's Interactive Outline of Electric Circuits</i>	Win	\$ 39
McGraw-Hill	<i>Schaum's Interactive Outline of Electromagnetics</i>	Win	\$ 39
MicroCode Engineering	<i>CircuitMaker</i>	Win	\$ 299
Microphys Programs	<i>Physics Laboratory Experiments: Unit F Electricity</i>	DOS	\$ 100
MicroSim Corporation	<i>MicroSim PSpice</i>	Win	\$ 1495

Electricity and Magnetism Continued...

Publisher	Title of Product	Computer	Price
National Science Teachers Association	<i>Fun with Electronics</i>	<i>Mac/Win CD-ROM</i>	\$ 45
Physics Academic Software	<i>Electric Field Hockey</i>	<i>Mac/DOS</i>	\$ 140
Physics Academic Software	<i>Electric Field Plotter</i>	<i>DOS</i>	\$ 100
Physics Academic Software	<i>EM Field</i>	<i>Mac/DOS/Win</i>	\$ 70
Physics Academic Software	<i>RealTime Maxwell</i>	<i>DOS</i>	\$ 100
Prentice Hall	<i>Circuit Modeling, Exercises and Software</i>	<i>DOS</i>	\$ 60
Prime Technology	<i>Applied DC Circuits: Basic Circuits</i>	<i>DOS</i>	\$ 79
Prime Technology	<i>Applied DC Circuits: Ohm's Law</i>	<i>DOS</i>	\$ 79
Prime Technology	<i>Applied DC Circuits: Parallel Circuits</i>	<i>DOS</i>	\$ 79
Prime Technology	<i>Applied DC Circuits: Resistors</i>	<i>DOS</i>	\$ 79
Prime Technology	<i>Applied DC Circuits: Schematics</i>	<i>DOS</i>	\$ 79
Prime Technology	<i>Applied DC Circuits: Series Circuits</i>	<i>DOS</i>	\$ 79
Prime Technology	<i>Applied DC Circuits: Series-Parallel Circuits</i>	<i>DOS</i>	\$ 79
Prime Technology	<i>Applied DC Circuits: Unit Conversions</i>	<i>DOS</i>	\$ 79
Projected Learning Programs	<i>Electricity and Electronics (9 parts)</i>	<i>DOS</i>	\$ 400
Projected Learning Programs	<i>Electricity/Electronics (8 parts)</i>	<i>Mac/DOS</i>	\$ 600
Projected Learning Programs	<i>Electronics Courseware: AC Electricity</i>	<i>DOS</i>	\$ 596
Projected Learning Programs	<i>Electronics Courseware: DC Electricity</i>	<i>DOS</i>	\$ 596
Projected Learning Programs	<i>Electronics Courseware: Digital Electronics</i>	<i>DOS</i>	\$ 596
Projected Learning Programs	<i>Electronics Courseware: Electronic Circuits</i>	<i>DOS</i>	\$ 596
Projected Learning Programs	<i>Electronics Courseware: Microprocessor Systems</i>	<i>DOS</i>	\$ 596
Projected Learning Programs	<i>Electronics Courseware: Solid State Electronic</i>	<i>DOS</i>	\$ 596
Projected Learning Programs	<i>Hands-On Electronics</i>	<i>Mac</i>	\$ 150
Queue	<i>Learning All About Electricity & Magnets</i>	<i>Mac/DOS CD-ROM</i>	\$ 125
Snowflake Software	<i>Test Quest Electricity and Magnetism Disk</i>	<i>DOS</i>	\$ 50
The 6502 Program Exchange	<i>Physics Disk 1: RCL Circuits</i>	<i>Mac/DOS</i>	\$ 40
The 6502 Program Exchange	<i>Physics Disk 3: Electric Fields & Equipotentials</i>	<i>DOS</i>	\$ 25
The 6502 Program Exchange	<i>Physics Disk 4: Electromagnetic Orbits</i>	<i>Mac/DOS</i>	\$ 49
The 6502 Program Exchange	<i>Physics Disk 6: Electric Fields in Three Dimensions</i>	<i>Mac</i>	\$ 45
TRO Learning	<i>Physics 2</i>	<i>DOS</i>	\$ 800
Vernier Software	<i>Charged Particles</i>	<i>DOS</i>	\$ 30
William K. Bradford Publishing Co.	<i>Physics Topics: Electricity</i>	<i>Mac</i>	\$ 45
William K. Bradford Publishing Co.	<i>Physics Topics: Magnetism</i>	<i>Mac</i>	\$ 45
YOERIC Software	<i>Mac- and Win-Breadboard</i>	<i>Mac/Win</i>	\$ 60
Zephyr Services	<i>ElectroGen</i>	<i>DOS</i>	\$ 30

Optics

Publisher	Title of Product	Computer	Price
COMPress	<i>Reflection and Refraction</i>	<i>Mac/DOS</i>	\$ 70
COMPress	<i>Waves and Light</i>	<i>Mac/DOS</i>	\$ 70
Cross Educational Software	<i>Optics</i>	<i>Mac/DOS</i>	\$ 35
DYNACOMP Inc.	<i>Optics One—Optical System Ray Tracer</i>	<i>DOS</i>	\$ 200
EME	<i>Light Waves</i>	<i>Mac/DOS</i>	\$ 67
GlobalView	<i>Physics Simulations: Optics</i>	<i>DOS</i>	\$ 25
Harter, Dr. William G.	<i>DiffractIt</i>	<i>Mac</i>	\$ 35
Hearlihy & Co.	<i>Fundamentals of Laser Technology</i>	<i>Mac/DOS</i>	\$ 90
Hearlihy & Co.	<i>Fundamentals of Light</i>	<i>Mac/DOS</i>	\$ 125
Hearlihy & Co.	<i>Introduction to Lasers Software</i>	<i>DOS</i>	\$ 179

Optics Continued...

Publisher	Title of Product	Computer	Price
IME Software	<i>Raytrace</i>	Win	\$ 80
Institute of Physics Publishing	<i>Susceptibility Tensors for Nonlinear Optics</i>	DOS/Win	\$ 200
Intellimation	<i>DAFRAC—The Diffraction Calculation Tool</i>	Mac	\$ 29
Intellimation	<i>Optics Lab</i>	Mac	\$ 39
Legal	<i>Physics Explorer: Diffraction and Interference</i>	Mac/Win	\$ 199
Legal	<i>Physics Explorer: Geometric Optics</i>	Mac/Win	\$ 199
Microphys Programs	<i>Geometrical Optics</i>	DOS	\$ 25
Microphys Programs	<i>Physics Laboratory Experiments: Unit E Waves and Optics</i>	DOS	\$ 100
Physics Academic Software	<i>Ray</i>	Mac	\$ 140
Queue	<i>Learning All About Light & Lasers</i>	Mac/DOS CD-ROM	\$ 75
Ruiz, Dr. Michael J.	<i>Light Programs</i>	DOS	\$ 25
Spindler and Hoyer	<i>WinLens</i>	Win	\$ 50
Stellar Software	<i>Beam Four</i>	Mac/DOS/Win	\$ 889
Stellar Software	<i>Beam Three</i>	Mac/DOS/Win	\$ 289
Stellar Software	<i>Beam Two</i>	Mac/DOS/Win	\$ 89
Virtual Photonics Pty	<i>EduOPALS (photonic and laser simulations)</i>	Mac/Win	\$2880
William K. Bradford Publishing Co.	<i>Physics Topics: Mirrors & Lenses</i>	Mac	\$ 45
Wolfram Research	<i>Optica</i>	Mac/Win	\$ 695

Modern Physics

Publisher	Title of Product	Computer	Price
Academic Press	<i>Quantum Mechanics</i>	DOS	\$ 55
Chapman & Hall	<i>Materials Science on CD-ROM</i>	Mac/Win	\$ 41
Cross Educational Software	<i>Atomic Physics</i>	Mac/DOS	\$ 35
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European Marketing Support	<i>Quantum Mechanics</i>	Win	\$ 97
Falcon Software	<i>IR Simulator</i>	Mac/DOS	\$ 75
Falcon Software	<i>NMR Simulator</i>	Mac/DOS	\$ 95
GlobalView	<i>Physics Simulations: Quantum Mechanics</i>	DOS	\$ 25
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John Wiley & Sons	<i>Solid State Physics Simulations: CUPS</i>	DOS	\$ 40
John Wiley & Sons	<i>Table of Isotopes</i>	Mac/Win CD-ROM	\$ 295
OnScreen Science	<i>Chamber Works</i>	Mac	\$ 99
Physics Academic Software	<i>Atomic Scattering</i>	Mac	\$ 60

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Physics Academic Software	BellBox	DOS	\$ 80
Physics Academic Software	Chart of the Nuclides: A Tutorial	Mac	\$ 100
Physics Academic Software	Graphical Schrödinger's Equation	Win	\$ 100
Physics Academic Software	Quantum Scattering	Mac	\$ 60
Physics Academic Software	Relativistic Collision	Mac/DOS	\$ 80
Physics Academic Software	RelLab	Mac	\$ 90
Physics Academic Software	Solid State Physics	DOS	\$ 70
Physics Academic Software	Spacetime	Mac/DOS	\$ 90
Physics Academic Software	Variational Method	Mac	\$ 90
Physics Academic Software	Vibrational Modes	Mac	\$ 60
Ruiz, Dr. Michael J.	Spectra	DOS	\$ 15
Science Kit & Boreal Laboratories	Fundamental Particles and Interactions	Mac/DOS	\$ 30
Snowflake Software	Test Quest Atomic and Nuclear Disk	DOS	\$ 50
SoftKey	Atomic Age	Mac/Win	\$ 25
Springer-Verlag New York	Computational Atomic Physics	DOS	\$ 75
Springer-Verlag New York	Quantum Mechanics on the Mac	Mac	\$ 50
Springer-Verlag New York	Quantum Mechanics on the Personal Computer	DOS	\$ 59
Springer-Verlag New York	Quantum Methods with Mathematica	Mac/Win	\$ 60
Springer-Verlag New York	The Nuclear Shell Model	DOS	\$ 50
The Multimedia Library	Animated Relativity	Mac	\$ 99
Vernier Software	Millikan Oil Drop Experiment	DOS	\$ 30

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Publisher	Title of Product	Computer	Price
Academic Press	Fractal Attraction: A Fractal Design System for the Mac	Mac	\$ 53
Academic Press	The Desktop Fractal Design System	Mac/DOS	\$ 30
Addison-Wesley Publishing Co.	An Experimental Approach to Nonlinear Dynamics & Chaos	Mac	\$ 45
Physics Academic Software	Chaos Data Analyzer	DOS	\$ 130
Physics Academic Software	Chaos Data Analyzer: The Professional Version	DOS	\$ 300
Physics Academic Software	Chaos Demonstrations	DOS	\$ 90
Physics Academic Software	Chaos Simulations	DOS	\$ 90
Physics Academic Software	Chaotic Dynamics Workbench	DOS	\$ 90
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Science Kit & Boreal Laboratories	The World of Chaos	Mac/DOS	\$ 0
Springer-Verlag New York	Chaos	DOS	\$ 59
Springer-Verlag New York	Fractals in Science: An Interdisciplinary Approach	Mac/DOS	\$ 59
Springer-Verlag New York	From Newton to Mandelbrot	Mac/DOS	\$ 35
Tel-Atomic	Chaos & Complexity Simulations for the Computer	DOS	\$ 129
Telos	Modeling Nature: Cellular Automata Simulations with Mathematica	Mac/Win	\$ 40
Zephyr Services	Flying Fractals	DOS	\$ 25

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CASL	<i>General/Physical Science Software Lab System</i>	Mac/DOS	\$ 790
Daedalon Corporation	<i>Chaotic Pendulum</i>	DOS	\$ 2000
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Daedalon Corporation	<i>Ultrasonic Measurement System</i>	Mac/DOS	\$ 325
Data Harvest Educational Inc.	<i>InsightZ</i>	Mac/DOS/Win	\$ 179
DeskTop Laboratories	<i>Science Toolbox Package</i>	Mac/Win	\$ 2600
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Eshed Science and Technology	<i>Handy-Log</i>	Win	\$ 880
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Labtech	<i>Labtech Notebook</i>	DOS/Win	\$ 445
Legal	<i>Explorer MBL Interface Unit</i>	Mac/Win	\$ 399
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Texas Instruments	<i>TI-Graph Link</i>	Mac/DOS/Win	\$ 55
Thornton Educational Products	<i>MacScope</i>	Mac	\$ 275
Thornton Educational Products	<i>TCI-550</i>	Mac/DOS	\$ 995
Tom Snyder Productions	<i>HIP Physics</i>	Mac CD-ROM	\$ 100
Vernier Software	<i>Data Logger</i>	Mac/DOS	\$ 30
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Vernier Software	<i>MultiPurpose Lab Interface (MPLI)</i>	DOS(\$ 290)/Win	\$ 310
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Vernier Software	<i>Vernier CBL Data Collection Disk</i>	Mac/DOS	\$ 10

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Academic Press	<i>Compact Guide to Excel</i>	Win CD-ROM	\$ 10
Addison-Wesley Publishing Co.	<i>An Introduction to Computer Simulation Methods: Applications for Physical Systems</i>	code available on Web	\$ 55
Addison-Wesley Publishing Co.	<i>MathCAD for Physics</i>	Mac/Win	\$ 23
Addison-Wesley Publishing Co.	<i>Spreadsheet Physics</i>	DOS	\$ 52
American Assoc. of Physics Teachers	<i>AJP/TPT Database</i>	DOS	free
Cambridge University Press	<i>Numerical Recipes Code CD-ROM</i>	Mac/DOS/Win	\$ 90
Cambridge University Press	<i>The Art of Molecular Dynamics Simulation</i>	code available on Web	\$ 70
Cross Educational Software	<i>Math Methods in Physics</i>	Mac/DOS	\$ 35
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High Performance Systems	<i>ithink (Standard version)</i>	Mac/Win	\$ 259

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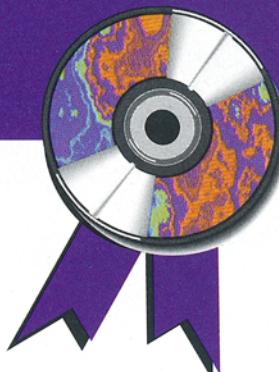
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