

### **New Maple PowerTools for Physics Educators**

**Exceptional curriculum materials available for free at [www.mapleapps.com](http://www.mapleapps.com)**

**WATERLOO, CANADA, September 28, 2001**—Waterloo Maple, a world leader in mathematical software for education, research and industry, introduces the Physics Education PowerTools™ Set, a collection of three undergraduate courses developed in Maple® 7, the company's flagship product. The Physics PowerTools Set includes curriculum materials in Classical Mechanics, Differential Equations and Complex Analysis. These course materials are available for free through the Maple Application Center at [www.mapleapps.com](http://www.mapleapps.com).

Both conceptually and mathematically, physics is arguably the most demanding of all the sciences in undergraduate education. The new PowerTools, developed by university professors, are intended to provide physics and math instructors with in-class demonstrations and labs in which students can work through subject material on their own. Each lesson uses Maple to develop the theory behind the topic and provides numerous worked examples. Principles are illustrated with Maple's interactive 2-D and 3-D graphics, including animations, free-body diagrams, ODE plots, contour plots and conformal mappings.

“By working with experts in the fields of classical mechanics, differential equations and complex analysis, Waterloo Maple helps to ensure that each of the PowerTools are of exceptional quality and value,” states Dr. Jason Schattman, Manager, Applications Marketing, at Waterloo Maple.

With the addition of the Physics PowerTools Set, the total number of PowerTools rises to 19. All can be previewed and downloaded for free from the [Maple Application Center](http://www.mapleapps.com). The Maple Application Center also offers hundreds of other smaller applications covering a wide spectrum of technical areas, including abstract algebra, fluid dynamics, astrophysics and economics.

#### **About Maple® 7**

Maple 7 is the latest version of the world's most trusted mathematical problem solving software. Widely adopted by universities, colleges, research institutions and companies, Maple 7 delivers the comprehensive environment and support resources to visualize and explore mathematical concepts, develop application tools and share mathematical information and documents on the Web. Combined with hundreds of free add-on packages and applications available through The Maple Application Center ([www.mapleapps.com](http://www.mapleapps.com)), Maple 7 constitutes the most powerful and flexible analytical tool for professors, researchers, scientists, engineers and students.

#### **About Maple PowerTools™**

Maple PowerTools are free application packages and academic course materials for Maple software located on the Maple Application Center, an online resource of technical solutions at [www.mapleapps.com](http://www.mapleapps.com). PowerTools are developed by experts in the field to help users configure Maple for industry, research and teaching. Each of the Maple PowerTools is developed using sound programming and analytical frameworks that have passed rigorous peer review and testing. Each is a bona fide application, research tool or course material collection with a complete range of functions to tackle complex problems in real domains.

## News Release

### **About Waterloo Maple Inc.**

Founded in 1988, Waterloo Maple is a world leader in mathematical and analytical software. The Maple system embodies advanced technology such as symbolic computation, infinite precision numerics, innovative Web connectivity and a powerful 4GL language for solving a wide range of mathematical problems encountered in modeling and simulation. Over a million users have adopted Waterloo Maple products as their preferred platform for exploring and managing complex problems in engineering, science, mathematics and technical education. Virtually every major university and research institute in the world, including MIT, Stanford, Oxford and Waterloo, has adopted Maple to enhance their education and research activities. Waterloo Maple's industrial customer base includes Nortel, Raytheon, Boeing, and DaimlerChrysler. For more information see [www.maplesoft.com](http://www.maplesoft.com).

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