

The maple Reporter™

Newsletter for October 2006

Welcome to the October 2006 Issue of the Maple Reporter!

The Maple Reporter provides all the latest news from Maplesoft, with articles highlighting new products, innovative application areas, tips and techniques, events, and much more.

This month's issue features news on newly redesigned and optimized MaplePrimes, Maplesoft's online user community. Maplesoft has also launched the new Elite Maintenance Program to help customers maximize their software investment. Also, check out this month's Tips & Techniques and read the latest user case study from Fairchild Semiconductor International.

To ensure delivery of Maplesoft emails to your inbox please add customerservice@maplesoft.com to your address book.

News & Announcements

Maple Elite

MAINTENANCE PROGRAM

The New Elite Maintenance Program, launched by Maplesoft, is much more than a maintenance program that offers support and upgrades. It is intended to help customers maximize their software investment, and with a growing list of benefits, subscribers can take advantage of the latest Maplesoft technology with upgrades, discounts on training courses, events and products, technical support, and much more. To find out more visit: www.maplesoft.com/elite

BlockBuilder™ for Simulink®

Maplesoft Introduces BlockBuilder™ for Simulink® Japanese Edition

Maplesoft announced that BlockBuilder for Simulink Japanese Edition is now available from Cybernet Systems Co., Ltd. BlockBuilder for Simulink Japanese Edition enables engineers to save time and dramatically reduce the risk of error in the model-based design of dynamic systems.

The Mathematics Survival Kit Maple™ Edition

User Case Study

Maple 10

Power Math for Power Circuits - How Maple's 3D capabilities helped solve the mystery of gate resistance on shoot through.

Desktop Engineering, October 2006

Alan Elbanhawy, a director at Fairchild Semiconductor International, used Maple to study and understand physical phenomena such as metal-oxide-semiconductor field-effect transistor (MOSFET) switching in power circuits. They examined the effects of lumped and distributed gate resistance on the

Mathematics Survival Kit – Maple Edition – Online Interview with the

Author Now Available Listen to author Jack Weiner's interview about the Mathematics Survival Kit-Maple Edition e-book. Jack gives an introduction to the Mathematics Survival Kit, and discusses its application and ideal audience. The Mathematics Survival Kit provides students with quick, concise and friendly five-minute reviews of 115 mathematical concepts, allowing them to navigate through challenging homework assignments with greater ease.

phenomenon of shoot through (also known as cross conduction) in synchronous buck.

[Read full article.](#)

Maplesoft Sponsors MAA Project NExT Fellow

Maplesoft is sponsoring the Mathematical Association of America (MAA) Project NExT (New Experiences in Teaching), a professional development program for new or recent PhDs in the mathematical sciences. This highly successful program for college and university professors is now in its 13th year and has helped more than 800 alumni. Maplesoft's support will aid the professional development of Jonathan Rogness, PhD, a visiting assistant professor with the University of Minnesota's School of Mathematics and Institute of Technology Center for Educational Programs (ITCEP). This sponsorship continues the collaboration between the MAA and Maplesoft. Other initiatives between the Maplesoft and the MAA include the [Maplesoft-MAA Placement Test Suite](#).

Maple Books:

If you are publishing a paper or writing a book related to Maple, we can help you! Please send your comments to applications@maplesoft.com.

Events**The Huntsville Simulation Conference 2006**

October 17-19, 2006
Huntsville, Alabama
[Click here for details.](#)

AMATYC Annual Conference

November 2-5, 2006
Cincinnati, Ohio
[Click here for details.](#)

See our [Events page](#) for other upcoming shows.



MaplePrimes, Maplesoft's online user community was recently given a major upgrade and redesign making the site more powerful and easier to use. All posts now have an information bar that combines the author information, posting date and categories for the post. The navigation links have been simplified, making it easier for you to get around the site. Also, the search box has been enhanced to let you also search Maplesoft.com and the web directly from MaplePrimes. Visit [MaplePrimes](#) to read more about the new features.

Maple Adoption Program™



Would you like to own your own home
copy of Maple 10 for free?

Join the Maple Adoption Program and register a course to receive a **free** HOME USE copy of Maple 10, the ultimate productivity tool for solving mathematical problems and creating interactive technical applications. In addition to the powerful capabilities of Maple, you will have the convenience of being able to prep for classes in the comfort of your own home.

Sign up today

Product Tips and Techniques

Classroom Tips and Techniques: Green's Functions for Second-Order ODEs

Author: Robert J. Lopez, Emeritus Professor of Mathematics and Maple Fellow, Maplesoft

Maple Tip & Technique: Plotting Functions with Discontinuities

Author: Maplesoft

Maple T.A. Tip & Technique: Creating and Using Maple Repositories

Author: Maplesoft

Maplesoft Seminar Series

Maplesoft's monthly web seminars provide an excellent opportunity for you to learn about interesting applications, new techniques, and upcoming products. Hosted live by senior Maplesoft product experts, these 1 hour interactive sessions offer the opportunity to ask questions and interact with the presenter. Whether you are a seasoned Maple user, or someone looking to find out what Maple is all about, this seminar series will offer an opportunity to learn something new and interesting.

- + **October 12th, 2006**, 2:00 - 3:00 pm EDT - [Introduction to Global Optimization Toolbox for Maplesoft](#)
- + **October 18th, 2006**, 2:00 - 3:00 pm EDT - [Maplesoft-MAA Placement Test Suite](#)
- + **October 24th, 2006**, 2:00 - 3:00 pm EDT - [Clickable Calculus: Syntax-Free Maple for the Calculus Student](#)
- + **October 31st, 2006**, 2:00 - 3:00 pm EST - [Introduction to Maple 10](#)
- + **November 7th, 2006**, 2:00 - 3:00 pm EST - [Maple Toolbox for MATLAB](#)
- + **November 9th, 2006**, 2:00 - 3:00 pm EST - [Maplesoft Solutions for Engineering Research and Education](#)

Application Center Highlights

The Maple Application Center has received the following new applications over the last month:

- [Visualize the Gerschgorin Circle Theorem](#)
Prof. Bill C Bauldry
- [Pseudoprimes](#)
Mr. Roland Engdahl
- [Investigation of the Power Spectral Density of Duffing's Equation By Equivalent Linearization Method](#)
Dr. Co Hong Tran

- [3D Equipotential and electric field lines due to point charges](#)
Prof. Takao Takeuchi
- [Convolution of Finite Discrete Signals Tutorial](#)
Mr. Rahidzab Talib
- [Astrobiology Question Banks](#)
Dr. Michael E McCabe

Maplesoft in the Press

Here are some highlights of this past months press coverage. The first piece of coverage is a review by Scientific Computing of the MapleConnect Premier Product nVizx. Many publications including, Design Line, EE Times, DesignFax, and Computing News wrote about the announcement of the Maple Toolbox for MATLAB product.

Feature Review

[Scientific Computing, August 2006](#)

Three New Leaves, Review by Felix Grant

“Many things can be done faster, more intuitively, more productively and more enjoyably....Using nVizx is like being given a lump of infinitely elastic clay and an infinite space in which to play...As is usual, Maple seeks to combine the best features from different methods into a compound approach for dealing with literally thousands of variables and constraints.”

[MCADCafe.com, September 2006](#)

Maplesoft Announces Engineering Toolkits

“The Maplesoft Engineering Toolkits are suites of Maple-powered analytical design tools that offer a combination of powerful mathematical solvers with domain specific functions for particular applications. Containing a combination of Maplesoft products for a specific industry or function, the toolkits are intended to enhance mechanical and vehicular dynamic simulation in the engineering design process.”

[Computing News, September 2006](#)

Maple Toolbox for MATLAB Now Available

“The new Toolbox combines the best in symbolic and numeric computation to develop mathematical solutions and perform in-depth analysis of the results.”

[EDA DesignLine, EE Times, Embedded.com, Design Line, EE Product Center, DesignFax Online, September 2006](#)

Maplesoft offers MATLAB toolbox

“Following what it described as an extensive public beta testing period, Canadian mathematical software vendor Maplesoft Tuesday (Sept. 12) announced the availability of the Maple Toolbox for Matlab. The

Toolbox is said to combine the best in symbolic and numeric computation to develop mathematical solutions and perform in-depth analysis of the results."

TMCNet, September 2006

Maplesoft Announces Engineering Toolkits to Enhance Mechanical and Vehicular Simulation Processes

"Containing a combination of Maplesoft products for a specific industry or function, the toolkits are intended to enhance mechanical and vehicular dynamic simulation in the engineering design process."

In addition to these articles, check out the [Press Coverage](#) area for all the latest coverage on Maplesoft.



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