

Tutorial básico de Maple

Introducción

Maple es una herramienta que permite combinar texto con expresiones matemáticas y operar sobre expresiones matemáticas.

Podemos encontrar información sobre este programa en la URL <http://www.maplesoft.com>.

En nuestra Universidad, el centro de cálculo ha confeccionado un manual (en castellano) que está disponible en el URL <http://www.uscib.usc.es/Maple/mn/Maple%20A%20A.pdf>. A este manual solo se puede acceder convenientemente desde la red de la UCM.

Una primera visita de Maple la podemos obtener con la barra de herramientas superior, ejecutando:

- Ayuda > Ayuda de Maple
- Ayuda > Tour por Maple

En la opción de Herramientas también son útiles para aprender el manejo:

- Herramientas > Asistentes
- Herramientas > Tutoriales

Este tutorial está pensado con dos objetivos:

- 1.- Introducir al alumno en la funcionalidad de Maple, de forma que pueda servir en cualquier momento como repaso antes de abordar un problema.
- 2.- Mostrar algunos herramientas especialmente útiles en el manejo y edición de las Ecuaciones Diferenciales.

Maple como tratamiento de textos

Textos

Como tratamiento de textos, Maple tiene las funciones básicas: cambiar tipo de letra, tamaño, negrita, cursiva, subrayado, alineación, numeración, color de la letra, etc.

También permite la numeración automática del texto mediante el menú **TT** o en **Herramientas > Corregir Ortografía**.

Lamentablemente, para los castellanoparlantes, el diccionario que usa Maple es el inglés. Sin embargo, lo que sí permite Maple es utilizar un diccionario de usuario al cual podemos le añadiendo palabras conformes con la gramática de la lengua. Estos diccionarios deben estar en formato txt. Existen muchos formatos (lista de palabras) muy complejos en la red. Una última opción, más fácil, aunque larga, es simplemente añadir las palabras que aparecen en nuestro documento, en relativamente poco tiempo podemos tener un diccionario razonablemente efectivo.

Expresiones matemáticas

Maple también permite escribir las expresiones matemáticas como $\left| \frac{dx}{\sqrt{1-\frac{x^2}{2}}} \right| = \left| \frac{t}{\sqrt{1-\frac{t^2}{2}}} \right| dt$

Para escribir estas expresiones matemáticas, en la columna de la izquierda, la pestaña **Expresión**

En la fila superior aparecen hay dos pestañas: **Forma** y **Matemáticas**. Son las dos formas básicas en las que se pueden introducir caracteres en Maple.

Desde aquí vamos introduciendo el texto y las expresiones matemáticas en modo texto.

Si cuando introducíamos una expresión matemática, al aparecer, pinchamos la pestaña **Matemáticas**, después de escribirla podemos hacer algunas evaluaciones con ella.

Para evaluarla solo tenemos que utilizar el botón derecho del ratón sobre la expresión. Por ejemplo, si sobre la siguiente expresión:

$$x^2 + 2x - 1 = 0$$

pinchamos con el botón derecho y seleccionamos la pestaña **Evaluar/eval**, automáticamente los valores de x que verifican la igualdad.

Al realizar esta acción tendremos encontrado la forma en la que Maple asigna un número particular que es en el modo de comando.

Modo comando y modo texto

Para salir al modo de comandos podemos pinchar el botón **TT** de la barra de herramientas superior. Junto a este botón hay otro con una T que permite pasar a modo texto.

Imprimiendo

Para ver cómo va a quedar un documento conviene ejecutar **Archivo > Vista preliminar**.

Para imprimir: **Archivo > Imprimir**.

Prácticamente el resto de este tutorial está dedicado al modo línea de comando.

Línea de comando

Los comandos en Maple se escriben en una **línea de comando**. A continuación se pone un ejemplo que se llama **demo1.txt** y el punto al final de la línea se ejecuta. Se pueden poner varias operaciones en una misma línea, separadas por punto y coma y al ejecutarse aparecerán en una columna:

Maple 1guide Tutorial Manual

Jianjun Gao



Maple 1guide Tutorial Manual:

Maple User Manual, 2007 **Tools of American Mathematics Teaching, 1800-2000** Peggy Aldrich Kidwell, Amy Ackerberg-Hastings, David Lindsay Roberts, 2008-08-11 From the blackboard to the graphing calculator the tools developed to teach mathematics in America have a rich history shaped by educational reform technological innovation and spirited entrepreneurship In *Tools of American Mathematics Teaching 1800 2000* Peggy Aldrich Kidwell Amy Ackerberg Hastings and David Lindsay Roberts present the first systematic historical study of the objects used in the American mathematics classroom They discuss broad tools of presentation and pedagogy not only blackboards and textbooks but early twentieth century standardized tests teaching machines and the overhead projector tools for calculation and tools for representation and measurement Engaging and accessible this volume tells the stories of how specific objects such as protractors geometric models slide rules electronic calculators and computers came to be used in classrooms and how some disappeared

Canadiana, 1989 **Encyclopedia of Microcomputers** Allen Kent, James G. Williams, 1995-10-13 Strategies in the Microprocessor Industry to Teaching Critical Thinking and Problem Solving **Encyclopedia of Computer Science and Technology** Allen Kent, James G. Williams, 1992-10-29 This comprehensive reference work provides immediate fingertip access to state of the art technology in nearly 700 self contained articles written by over 900 international authorities Each article in the Encyclopedia features current developments and trends in computers software vendors and applications extensive bibliographies of leading figures in the field such as Samuel Alexander John von Neumann and Norbert Wiener and in depth analysis of future directions **Design and Implementation of Symbolic Computation Systems** Alfonso Miola, 1993-09-02 This volume constitutes the proceedings of the International Symposium on Design and Implementation of Symbolic Computation Systems DISCO 93 held in Gmunden Austria in September 1993 The growing importance of systems for symbolic computation has greatly influenced the decision of organizing this third conference in the series DISCO 93 focuses mainly on the most innovative methodological and technological aspects of the design and implementation of hardware and software systems for symbolic and algebraic computation automated reasoning geometric modeling and computation and automatic programming The general objective of DISCO 93 is to present an up to date view of the field and to serve as a forum insymbolic computation for the scientific exchange among academic industrial and user communities Besides invited talks by Buchberger Monagan Omodeo and Hong the volume contains 28 contributions carefully selected by a highly competent international program committee from a total of 56 submissions **Scientific and Technical Aerospace Reports**, 1994 *WATCOM Pascal* Franklin D. Boswell, T. R. Grove, Eric W. Mackie, 1986 **WATCOM GKS Graphics** David Paul Yach, 1986 **WATFILE/plus Data Manipulation System** T. A. (Terence Alfred) Wilkinson, 1986 **Monthly Catalog of United States Government Publications**, 1995 **A Robot Engineering Textbook** Mohsen Shahinpoor, 1987 **The Bulletin of Mathematics Books**, 1992 **Farmers' Guide**, 1907 **The Cumulative Book**

Index ,1992 A world list of books in the English language Iowa Documents ,1979 **Books in Print** ,1991

Principles Of Applied Mathematics James P. Keener,1995 This book is written for beginning graduate students in applied mathematics science and engineering and is appropriate as a one year course in applied mathematical techniques although I have never been able to cover all of this material in one year We assume that the students have studied at an introductory undergraduate level material on linear algebra ordinary and partial differential equations and complex variables The emphasis of the book is a working systematic understanding of classical techniques in a modern context Along the way students are exposed to models from a variety of disciplines It is hoped that this course will prepare students for further study of modern techniques and in depth modeling in their own specific discipline **International Journal of Lighting Research and Technology** ,1996 *American Book Publishing Record* ,2002

Maple 1guide Tutorial Manual Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Maple 1guide Tutorial Manual**," published by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound affect our existence. Throughout this critique, we will delve into the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

https://blog.gospelcrusade.org/book/Resources/index.jsp/house_of_silence_volume_2_ricochet.pdf

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