

Tutorial básico de Maple

¶ Introducción

Maple es una herramienta que permite escribir 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 la URL <http://www.cicci.uchv.es/Maple/Maple%20V.4.PDF>. A este manual sólo se puede acceder accediéndome 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 > Ayuditas
- Herramientas > Tutoriales

Este tutorial está pensado con dos objetivos:

- 1.- Introducir al alumno en la funcionalidad básica de Maple, de forma que pueda servir en cualquier momento como repaso antes de abordar un informe.
- 2.- Mostrar algunas herramientas especialmente útiles en el manejo y solución de los Ejercicios Entregados.

¶ Maple como tratamiento de textos.

Textos

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

También permite la conexión ortográfica del texto mediante el botón F7 o en Herramientas > Corregir Ortografía.

Lamentablemente, para los castellanoespanoles, el diccionario que usa Maple es el inglés. Sin embargo, lo que sí permite Maple es utilizar un diccionario de usuario al cual podemos ir añadiendo palabras conllevando una apertura al texto. Este diccionario deberá estar en formato txt. Existen muchos formatos (lista de palabras) muy complejos en format. Una última opción, más fácil, aunque larga, es simplemente añadir las palabras que queremos en nuestros diccionarios, en algún momento poco tiempo podremos tener un diccionario considerablemente efectivo.

Expresiones matemáticas

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

Para escribir estas expresiones matemáticas, en la columna de la izquierda, la palabra *Expression*

de la fila superior izquierda hay dos pestañas: *Text* y *Mathmatic*. Son las dos formas básicas en las que se pueden introducir expresiones en Maple.

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

Si vamos introduciendo una expresión matemática, al intentar, pinchamos la pestaña *Matemática*, después de escribirlo podemos hacer algunas modificaciones con ella.

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

$$x^2 + 2 \cdot x + 1 = 0$$

pinchamos con el botón derecho y seleccionamos la pestaña *color=color*, encontraremos los colores de x que verifican la igualdad.

Al realizar una acción habremos encontrado la forma en la que Maple adapta su sistema personal, que es en el modo de comando.

Modo comando y modo texto

Para abrir el modo de comando podemos pinchar el botón [C] 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 es a grande un documento conviene ejecutar: Archivo > Vista preliminar

Para imprimir: Archivo > Imprimir

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

¶ Línea de comando

Las comandos en Maple se escriben en una *línea de comando*. A continuación se pone un ... tal que se llama *argumento* y al pinchar el botón *Intro* se ejecuta. Se pueden poner varias operaciones en una misma línea, separadas por punto y coma y al ejecutarse aparecerán en una columna:

Tutorial Manual De Maple 11

Carl Louise Garrison



Tutorial Manual De Maple 11:

Maple User Manual ,2007 Manual and Diagrams to Accompany Metcalf's Grammars Carl Louise Garrison,1901

Maple V: Mathematics and its Applications Robert J. Lopez,2012-12-06 The Maple Summer Workshop and Symposium MSWS 94 reflects the growing community of Maple users around the world This volume contains the contributed papers A careful inspection of author affiliations will reveal that they come from North America Europe and Australia In fact fifteen come from the United States two from Canada one from Australia and nine come from Europe Of European papers two are from Germany two are from the Netherlands two are from Spain and one each is from Switzerland Denmark and the United Kingdom More important than the geographical diversity is the intellectual range of the contributions We begin to see in this collection of works papers in which Maple is used in an increasingly flexible way For example there is an application in computer science that uses Maple as a tool to create a new utility There is an application in abstract algebra where Maple has been used to create new functionalities for computing in a rational function field There are applications to geometrical optics digital signal processing and experimental design *MATLAB Programming* Dingyü Xue,2020-03-23 This book presents fundamentals in MATLAB programming including data and statement structures control structures function writing and debugging in MATLAB programming followed by the presentations of algebraic computation transcendental function evaluations and data processing Advanced topics such as MATLAB interfacing object oriented programming and graphical user interface design are also addressed *Publications of the Bureau of Community Health Services* ,1980 **Readers' Guide to Periodical Literature** ,1922 *MATLAB and Simulink in Action* Dingyü Xue,Feng Pan,2024-05-08 The textbook is intended for teaching MATLAB language and its applications The book is composed of three parts MATLAB programming scientific computing with MATLAB and system simulation with Simulink Since MATLAB is widely used in all fields of science and engineering a good introduction to the language can not only help students learn how to use it to solve practical problems but also provide them with the skills to use MATLAB independently in their later courses and research The three parts of the book are well balanced and tailored to the needs of engineering students and the mathematical problems commonly encountered in engineering can be easily solved using MATLAB This textbook is suitable for undergraduate and graduate students majoring in science and engineering The study guide of this textbook could be accessed via <http://sn.pub.thGR7v> This website provides links to recorded teaching videos MATLAB toolbox for the book interactive slide decks files in Powerpoint documents and solution manuals by the authors **Educational Film Guide** H.W. Wilson Company,1949 **Agriculture Handbook** ,2008-07 The Mineral Surveyor & Valuer's Complete Guide William Lintern,1898 *Wannan's Marine engineer's guide to Board of trade examinations for certificates of competency*, by A.C. and E.W.I. Wannan Alexander Copeland Wannan,1902 **Cumulated Index Medicus** ,1993 *Power System Simulation* J.P. Barret,P. Bornard,B. Meyer,1996-12-31 The authors writing with the experience and technological

background of Electricite de France an organisation at the forefront of simulation methods provide a comprehensive and comprehensible treatment of the modelling and simulation techniques currently in use The text emphasises model design applied to power plants producing energy generators and motors carrying out energy transformations and networks transmitting energy The systems are analysed considering each process from steady state to fast transients with detailed explanation of the problem to be solved the choice of models and methods for optimising efficiency Many examples and references are provided The book is essential reading for anyone involved in power system engineering from practising design and development engineers to researchers and postgraduate and advanced graduate students *The student's guide to the practice of measuring and valuing artificers' works. By a late eminent surveyor. By E.W. Tarn Student,1884* **Forest Service Research Paper WO.** ,1964 U.S. Forest Service Research Paper WO ,1964 *Automation, Communication and Cybernetics in Science and Engineering 2013/2014* Sabina Jeschke,Ingrid Isenhardt, Frank Hees,Klaus Henning,2014-12-03 This book continues the tradition of its predecessors *Automation Communication and Cybernetics in Science and Engineering* 2009 2010 and 2011 2012 and includes a representative selection of scientific publications from researchers at the institute cluster IMA ZLW IfU IMA Institute of Information Management in Mechanical Engineering ZLW Center for Learning and Knowledge Management IfU Associated Institute for Management Cybernetics e V Faculty of Mechanical Engineering RWTH Aachen University The book presents a range of innovative fields of application including cognitive systems cyber physical production systems robotics automation technology machine learning natural language processing data mining predictive data analytics visual analytics innovation and diversity management demographic models virtual and remote laboratories virtual and augmented realities multimedia learning environments organizational development and management cybernetics The contributions selected reflect the fundamental paradigm shift toward an increasingly interdisciplinary research world which has always been both the basis and spirit of the institute cluster IMA ZLW IfU **Computerworld** ,1984-05-21 For more than 40 years Computerworld has been the leading source of technology news and information for IT influencers worldwide Computerworld s award winning Web site Computerworld com twice monthly publication focused conference series and custom research form the hub of the world s largest global IT media network 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 Drying Eastern Hardwood Lumber John M. McMillen,Eugene M.

Wengert,1978

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