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Numerical Recipes In Fortran 90

For example, the book "Numerical Recipes in Fortran" is both a good text on scientific programming algorithms and a good introduction to how to put together codes. More recent editions include chapters on how to program in a mixed-language environment and parallel programming. Another example is "Modern Fortran in Practice" written by Arjen Markus.

How to Program in Fortran (with Pictures) - wikiHow

Over the years, a variety of floating-point representations have been used in computers. In 1985, the IEEE 754 Standard for Floating-Point Arithmetic was established, and

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since the 1990s, the most commonly encountered representations are those defined by the IEEE.. The speed of floating-point operations, commonly measured in terms of FLOPS, is an important characteristic of a computer system

...

Floating-point arithmetic - Wikipedia

The (complete) gamma function $\Gamma(n)$ is defined to be an extension of the factorial to complex and real number arguments. It is related to the factorial by $\Gamma(n)=(n-1)!$, (1) a slightly unfortunate notation due to Legendre which is now universally used instead of Gauss's simpler $\Pi(n)=n!$ (Gauss 1812; Edwards 2001, p. 8). It is analytic everywhere except at $z=0, -1, -2, \dots$, and the residue ...

Gamma Function -- from Wolfram MathWorld

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...

It is believed the problem with HDF 4 is that everything is compiled with the F77 compiler, but at some point some Fortran 90 code slipped in there. So compilers that can handle both FORTRAN 77 and Fortran 90 (gfortran, pgfortran, etc) are fine. But compilers specific to one or the other (pgf77, pgf90) won't work.

Getting Started ¶ Spack 0.16.1 documentation

In mathematics, a matrix (plural matrices) is a rectangular array or table of numbers, symbols, or expressions, arranged in rows and columns. For example, the dimension of the matrix below is 2×3 (read "two by three"), because there are two rows and three columns: $\begin{bmatrix} 1 & 2 & 3 \\ 4 & 5 & 6 \end{bmatrix}$. Provided that they have the

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same dimensions (each matrix has the same number of rows and the same number of columns as the ...

Matrix (mathematics) - Wikipedia

Un generador lineal congruencial (GLC) es un algoritmo que permite obtener una secuencia de números pseudoaleatorios calculados con una función lineal definida a trozos discontinua. Es uno de los métodos más antiguos y conocidos para la generación de números pseudoaleatorios. [1] La teoría que sustenta el proceso es relativamente fácil de entender, el algoritmo en si es de fácil ...

Generador lineal congruencial - Wikipedia, la enciclopedia ...

Neural networks offer an unbiased and numerically very accurate approach to represent high-dimensional ab initio potential-energy surfaces. Once constructed, neural network potentials can provide the energies and forces many orders of magnitude faster than electronic structure calculations, and thus enable molecular dynamics simulations of large systems.

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