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The document discusses numerical analysis techniques including solving algebraic and transcendental equations, interpolation, numerical integration and differentiation, solving differentiSaveSave Computer Based Numerical and Statistical Technique... For Later100%100% found this document useful, undefined Ask the publishers to restore access to 500,000+ books. Babylonian clay tablet YBC 7289 (c. 18001600 BCE) with annotations. The approximation of the square root of 2 is four sexagesimal figures, which is about six decimal figures. 1 + 24 / 60 + 51 / 60 2 + 10 / 60 3 1.41421296 {\displaystyle 1+24/60+51/60^{2}+10/60^{3}\approx 1.41421296} [1]Numerical analysis studies different algorithms to get approximations for problems of mathematical analysis. Approximations are used for the following reasons:There are no known ways to solve a problem using calculus. Examples for such problems are the NavierStokes equations[2][3][4][5] or the Three-body problemThere is a way to solve a problem using calculus. Getting an exact solution is impractical though, because it requires a long time, or many resources. An example for this is calculating power series.One of the earliest known uses of numerical analysis is a Babylonian clay tablet, which approximates the square root of 2. In a unit square, the diagonal has this length. Being able to compute the sides of a triangle is extremely important, for instance, in carpentry and construction.[6]Numerical analysis continues this long tradition of practical mathematical calculations. Much like the Babylonian approximation of 2 {\displaystyle {\sqrt {2}}} , modern numerical analysis does not seek exact answers, because exact answers are often impossible to obtain in practice. Instead, much of numerical analysis is concerned with obtaining approximate solutions while maintaining reasonable bounds on errors.Numerical analysis naturally finds applications in all fields of engineering and the physical sciences,[7] but in the 21stcentury, the life sciences and even the arts have adopted elements of scientific computations. Ordinary differential equations appear in star movement; optimization occurs in portfolio management; numerical linear algebra is important for data analysis;[8][9][10] stochastic differential equations[11][12][13][14][15] and Markov chains[16] are essential in simulating living cells for medicine and biology.[17]Computers greatly helped this task. Before there were computers, numerical methods often depended on hand interpolation in large printed tables. Since the mid 20th century, computers calculate the required functions instead.[18] These same interpolation formulas nevertheless continue to be used as part of the software algorithms for solving differential equations.[19][20][21]In order to support numerical analysts, many kinds of numerical software has been created:MatLab[22][23][24] - made by MathWorksGNU Octave, Scilab - open source versions of MATLABSageMath[25]SciPy[26][27][28]Wolfram Mathematica[29][30][31][32] - made by Wolfram Research "Photograph, illustration, and description of the root(2) tablet from the Yale Babylonian Collection". Archived from the original on 2012-08-13. Retrieved 2012-03-25. Constantin, P., & Foias, C. (1988). Navier-stokes equations. University of Chicago Press. Temam, R. (2001). Navier-Stokes equations: theory and numerical analysis (Vol. 343). American Mathematical Society. Foias, C., Manley, O., Rosa, R., & Temam, R. (2001). Navier-Stokes equations and turbulence (Vol. 83). 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WilkinsonLeonid KantorovichMasaaki SugiharaMasao IriMasatake MoriPeter DeuflhardPeter LaxShinichi OishiFind more aboutNumerical analysisat Wikipedia's sister projects Media from CommonsQuotations from WikiquoteTextbooks from WikibooksFinite element methodMathematical analysisNewton's methodNumerical digitNumerical integrationNumerical linear algebraNumerical methods for ordinary differential equationsNumerical methods for partial differential equationsParallel computingSeries accelerationValidated numericsAffine arithmeticInternational Symposium on Scientific Computing, Computer Arithmetic, and Validated NumericsInterval arithmeticIntLabHigham, Nicholas J. (1996). Accuracy and Stability of Numerical Algorithms. Society for Industrial and Applied Mathematics.Gautschi, W. (1997). Numerical analysis. Springer Science & Business Media.Leader, Jeffery J. (2004). Numerical Analysis and Scientific Computation. Addison Wesley.Quarteroni, A., Sacco, R., & Saleri, F. (2010). 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At that time, it was a tropical depression. It may have been the first storm to hit the area since a hurricane in 1842. Vince died out over Spain. However, it dropped rain in the country. 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