

# APPLICATIONS OF NUMERICAL METHODS USING MATLAB

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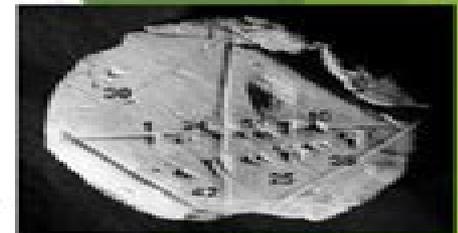
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## NUMERICAL METHODS/ANALYSIS

- ▶ **Numerical analysis** is the study of algorithms that use numerical approximation (as opposed to general symbolic calculations) for the problems of mathematical analysis.
- ▶ Numerical analysis continues this long tradition of practical mathematical calculations. Much like the Babylonian approximation of Square Root of 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, but in the 21st century also the life sciences and even the arts have adopted elements of scientific computations. Ordinary differential equations appear in celestial mechanics (planets, stars and galaxies); numerical linear algebra is important for data analysis; stochastic differential equations and Markov chains are essential in simulating living cells for medicine and biology.
- ▶ Before the advent of modern computers numerical methods often depended on hand interpolation in large printed tables. Since the mid 20th century, computers calculate the required functions instead. These same interpolation formulas nevertheless continue to be used as part of the software algorithms for solving differential equations.



## AREAS OF STUDY UNDER NUMERICAL METHODS

- ▶ Computing values of functions (Special Functions, Experiments, Mathematical Modelling)
- ▶ Interpolation, Extrapolation, and Regression (Curve Fitting)
- ▶ Solving equations and Systems of equations (Non-Linear or Simultaneous Linear Equations)

# Numerical Methods With Matlab Implementations And Applications

**Clemens Wendtner**



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