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and the computational or floating-point representation $x_{\text{fl}} = fl(x)$. Since infinite precision cannot be achieved with finite resources, the computational representation is a finite precision approximation of the exact value. Consider, for example, the decimal number $x = 0.00012345876543$.

INTRODUCTION TO COMPUTATIONAL MATHEMATICS

Mathematical Methods in Engineering and Science Matrices and Linear Transformations 22, Matrices Geometry and Algebra Linear Transformations Matrix Terminology Geometry and Algebra Operating on point x in R^3 , matrix A transforms it to y in R^2 . Point y is the image of point x under the mapping defined by matrix A .

Mathematical Methods in Engineering and Science - IITK

Examples of topics addressed are: fast and accurate numerical algorithms, model-order reduction, grid computing, immersed-boundary methods, and specific computational methods for simulating a wide variety of challenging problems, problems such as: fluid-structure interaction, turbulent flames, bone-fracture healing, micro-electro-mechanical systems, failure of composite materials, storm surges, particulate flows, and so on.

Advanced Computational Methods in Science and Engineering

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