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Numerical Methods in Civil Engineering by Dr. A. Deb, Department of Civil Engineering, IIT Kharagpur. For more details on NPTEL visit <http://nptel.ac.in>

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Journal of Numerical Methods in Civil Engineering

Underlying any engineering application is the use of Numerical Methods. Numerical Methods is a manner in which 'discretization' of solutions can be achieved rather than analytical solutions (eg. integration, differentiation, ordinary differential equations and partial differential equations).

Numerical Methods for Civil Engineers

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CE 536 Introduction to Numerical Methods for Civil Engineers

Introduction to Computer Methods Department of Civil, Architectural and Environmental Engineering The University of Texas at Austin Numerical Integration Introduction Trapezoid Rule The primary purpose of numerical integration (or quadrature) is the evaluation of integrals which are either impossible or else very difficult to evaluate analytically.

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Numerical Methods for Civil Engineers Lecture Notes CE 311K Daene C. McKinney Introduction to Computer Methods Department of Civil, Architectural and Environmental Engineering The University of Texas at Austin Linear Equations Introduction In many engineering applications it is necessary to solve systems of linear equations.

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Describe and apply basic numerical methods for civil engineering problem solving. Develop algorithms and programs for solving civil engineering problems involving: (i) multi-dimensional integration, (ii) multivariate differentiation, (iii) ordinary differential equations, (iv) partial differential equations, (v) optimization, and (vi) curve fitting or inverse problems.

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CE597 Computational Methods in Civil Engineering

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