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of Savitribai Phule Pune University w.e.f. academic year 2020-2021

# **Numerical Methods and Computer Programming**

(Code - 203148)

**Semester IV - Electrical Engineering**

**Kruntuja S. Gadgil      Chinmay V. Deshpande**



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# Numerical Computer Methods

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**Numerical Computer Methods, Part D.** ,2004    **Numerical Computer Methods, Part C.** Ludwig Brand, 2000    *Computer Methods for Ordinary Differential Equations and Differential-Algebraic Equations* Uri M. Ascher, Linda R. Petzold, 1998-08-01 This book contains all the material necessary for a course on the numerical solution of differential equations

[Introductory Computer Methods and Numerical Analysis](#) Ralph Hugh Pennington, 1965

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produced are what they expected Selected Contents Prediction of protein structure Modeling and studying proteins with molecular dynamics Statistical error in isothermal titration calorimetry Analysis of circular dichroism data Model comparison methods **Part B** ,1994 *Numerical Computer Methods. Vol. 240, Pt. B.* Michael L Johnson,1994 **Numerical**

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Singhal,1983-08-31 Numerical and Computer Methods in Structural Mechanics Steven J. Fenves,Nicholas Perrone,Arthur R. Robinson,2014-05-10 Numerical and Computer Methods in Structural Mechanics is a compendium of papers that deals with the numerical methods in structural mechanics computer techniques and computer capabilities Some papers discuss the analytical basis of the computer technique most widely used in software that is the finite element method This method includes the convergence in terms of variation principles isoparametrics hybrid models and incompatible displacement models Other papers explain the storage or retrieval of data as well as equation solving algorithms Other papers describe general purpose structural mechanics programs alternatives to and extension of the usual finite element approaches Another paper explores nonlinear dynamic finite element problems and a direct physical approach to determine finite difference models Special papers explain structural mechanics used in computing particularly those related to integrated data bases such as in the Structures Oriented Exchange System of the Office of Naval Research and the integrated design of tanker structures Other papers describe software and hardware capabilities for example in ship design fracture mechanics biomechanics and crash safety The text is suitable for programmers computer engineers researchers and scientists involved in materials and industrial design **Computer Methods for Engineering with MATLAB® Applications** Yogesh

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