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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 Michael L. Johnson, Ludwig Brand, 2000 The critically acclaimed laboratory standard for more than forty years Methods in Enzymology is one of the most highly respected publications in the field of biochemistry. Since 1955 each volume has been eagerly awaited, frequently consulted, and praised by researchers and reviewers alike. Now with more than 300 volumes all of them still in print, the series contains much material still relevant today truly an essential publication for researchers in all fields of life sciences.

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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Computer Methods of Solution ,1970 *Computer Methods for Circuit Analysis and Design* Jirí Vlach,Kishore

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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