

∴ Basic Numerical methods:

1) a) $f(x) = \tan x + x = 0$ between 2 and 2.5, correct up to 2 decimal places.

Ans) Let, $a = 2$, $b = 3$ $f(3) = \tan 3 + 3$

$$f(2) = \tan 2 + 2 = 2.85$$

$$c = 2.5$$

Iteration	a	b	f(a)	f(b)	$x = \frac{a+b}{2}$	f(x)
1	2	3	-0.19	2.85	2.5	1.75
2	2	2.5	-0.18	1.75	2.25	1.01
3	2	2.25	-0.19	1.01	2.12	0.69
4	2	2.12	-0.18	0.69	2.06	0.19
5	2	2.06	-0.18	0.19	2.03	0.007

Hence, a root of the given eq. is 2.03 correct to 2 decimal places.

b) $f(x) = xe^x - 1 = 0$, correct up to 2 decimal places.

Ans) Let, $a = 0$, $b = 1$

$$f(0) = 0e^0 - 1 = -1, \quad f(1) = 1e^1 - 1 = 1.71$$

Iteration	a	b	f(a)	f(b)	$x = \frac{a+b}{2}$	f(x)
1	0	1	-1	1.71	0.5	-0.39
2	0.5	1	-0.17	1.71	0.75	0.58
3	0.75	0.75	-0.17	0.58	0.63	0.18
4	0.75	0.63	-0.17	0.18	0.57	0.007
	0.513	0.5	0.133	0.139	0.511	0.127
	0.56	0.5	0.127	0.136	0.58	0.127

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WJ Hussar



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Some Graphical and Numerical Methods for the Personal Computer Gyorgy Emese,1988 **Numerical BASIC** Bruce Powel Douglass,1983 Essentials of Scientific Computing Victor Zalizniak,2008-03-01 Modern development of science and technology is based to a large degree on computer modelling To understand the principles and techniques of computer modelling students should first get a strong background in classical numerical methods which are the subject of this book This text is intended for use in a numerical methods course for engineering and science students but will also be useful as a handbook on numerical techniques for research students Essentials of Scientific Computing is as self contained as possible and considers a variety of methods for each type of problem discussed It covers the basic ideas of numerical techniques including iterative process extrapolation and matrix factorization and practical implementation of the methods shown is explained through numerous examples An introduction to MATLAB is included together with a brief overview of modern software widely used in scientific computations Outlines classical numerical methods which is essential for understanding the principles and techniques of computer modelling Intended for use in a numerical methods course for engineering and science students but will also be useful as a handbook on numerical techniques for research students Covers the basic ideas of numerical techniques including iterative process extrapolation and matrix factorization **Numerical Methods for Physics** Alejandro L. Garcia,1994-01-01 This text covers the most important basic numerical and analytical techniques used in physics including ordinary and partial differential equations linear algebra Fourier transforms integration and probability FORTRAN references are included **Fundamentals of Numerical Computation** Tobin A. Driscoll,Richard J. Braun,2017-12-21 Fundamentals of Numerical Computation is an advanced undergraduate level introduction to the mathematics and use of algorithms for the fundamental problems of numerical computation linear algebra finding roots approximating data and functions and solving differential equations The book is organized with simpler methods in the first half and more advanced methods in the second half allowing use for either a single course or a sequence of two courses The authors take readers from basic to advanced methods illustrating them with over 200 self contained MATLAB functions and examples designed for those with no prior MATLAB experience Although the text provides many examples exercises and illustrations the aim of the authors is not to provide a cookbook per se but rather an exploration of the principles of cooking The authors have developed an online resource that includes well tested materials related to every chapter Among these materials are lecture related slides and videos ideas for student projects laboratory exercises computational examples and scripts and all the functions presented in the book The book is intended for advanced undergraduates in math applied math engineering or science disciplines as well as for researchers and professionals looking for an introduction to a subject they missed or overlooked in their education *Basic Concepts in Computational Physics* Benjamin A. Stickler,Ewald Schachinger,2016-03-21 This new edition is a concise introduction to the basic methods of

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Numerical Methods of Mathematics Implemented in Fortran Sujit Kumar Bose,2019-05-13 This book systematically classifies the mathematical formalisms of computational models that are required for solving problems in mathematics engineering and various other disciplines It also provides numerical methods for solving these problems using suitable algorithms and for writing computer codes to find solutions For discrete models matrix algebra comes into play while for continuum framework models real and complex analysis is more suitable The book clearly describes the method algorithm code approach for learning the techniques of scientific computation and how to arrive at accurate solutions by applying the procedures presented It not only provides instructors with course material but also serves as a useful reference resource Providing the detailed mathematical proofs behind the computational methods this book appeals to undergraduate and graduate mathematics and engineering students The computer codes have been written in the Fortran programming language which is the traditional language for scientific computation Fortran has a vast repository of source codes used in real world applications and has continuously been upgraded in line with the computing capacity of the hardware The language is fully backwards compatible with its earlier versions facilitating integration with older source codes

Numerical Methods ,2015 Computational Physics I Philipp O. J. Scherer,2025-12-06 This book presents basic numerical methods and applies them to a large variety of physical models in multiple computer experiments Authored by a distinguished expert in the field it combines rigorous theoretical insights with a wealth of practical and easily accessible computational applications This book serves as an ideal standalone text for computational physics courses at both the graduate and advanced undergraduate levels It offers a detailed and cohesive exploration of the physics of classical and quantum systems electrostatics thermodynamics statistical physics and nonlinear systems integrating foundational principles with advanced simulation techniques The significantly expanded and updated fourth edition comprises two volumes Volume 1 is dedicated to numerical methods covering essential topics such as error analysis numerical differentiation and integration

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Numerical Methods and Algorithms for Home Computers, BASIC Algonquin College, Irving H. Bansfield, 1984

Numerical Methods and Scientific Computing Norbert Köckler, 1994 This introduction to software packages is written specifically for scientists and engineers who write programmes to get numerical results It covers the whole range of numerical mathematics from linear equations to ordinary differential equations with short sections on the calculus of error and partial differential equations As it aims to give a unified approach to theory alogorithms applications and the use of software the emphasis is on examples and applications rather than proofs This book is appearing at the same time as PAN software that contains all the programs described in the book and additional useful software such as help systems and utility tools as well as an enlarged hypertext version of the text

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