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Since the iteration methods involve repetition of the same process many times, computers can act well for finding solutions of equation numerically. Some of the iteration methods for finding solution of equations involves (1) Bisection method. (2) Method of false position (R egula-falsi Method), (3) N ewton-Raphson method.

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This book clearly presents the algorithms required for easy implementation of numerical methods in computer programming. The book deals with the important topics of numerical methods, including errors in numerical computation, in a lucid style. Chapter-end short questions with answers and appendices with theory questions and 'C' programs are student-friendly feature of the book.

Numerical methods are powerful problem-solving tools. Techniques of these methods are capable of handling large systems of equations, nonlinearities and complicated geometries in engineering practice which are impossible to be solved analytically. Numerical methods can solve the real world problem using the C program given in this book. This well-written text explores the basic concepts of numerical methods and gives computational algorithms, flow charts and programs for solving nonlinear algebraic equations, linear equations, curve fitting, integration, differentiation and differential equations. The book is intended for students of B.E. and B.Tech as well as for students of B.Sc. (Mathematics and Physics). KEY FEATURES ? Gives clear and precise exposition of modern numerical methods. ? Provides mathematical derivation for each method to build the student's understanding of numerical analysis. ? Presents C programs for each method to help students to implement the method in a programming language. ? Includes several solved examples to illustrate the concepts. ? Contains exercises with answers for practice.

[Numerical Analysis is a way to solve the real life mathematical, physical and engineering problems. Numerical Analysis can be used to answer the problems for which the analytical solution is not available.]

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