

# Bisection method

April 17, 2018

Electronics; Gr:02

## Steps of the report

01. the definition.

02. Theoretical work.

03. Practical work (method)

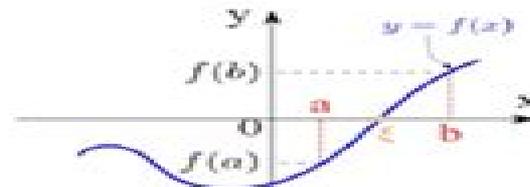
## What does it mean the bisection method

The bisection method in mathematics is a root-finding method that repeatedly bisects an interval and then selects a subinterval in which a root must lie for further processing. It is a very simple and robust method, but it is also relatively slow. Because of this, it is often used to obtain a rough approximation to a solution which is then used as a starting point for more rapidly converging methods. The method is also called the interval halving method, the binary search method, or the dichotomy method.]

### The method

The method is applicable for numerically solving the equation  $f(x) = 0$  for the real variable  $x$ , where  $f$  is a continuous function defined on an interval  $[a, b]$  and where  $f(a)$  and  $f(b)$  have opposite signs.

In this case  $a$  and  $b$  are said to bracket a root since, by the intermediate value theorem, the continuous function  $f$  must have at least one root in the interval  $(a, b)$ .



As you see in this picture  
 $f(x)$  continue in  $[a, b]$   
 $f(a)f(b) < 0$   
so their is the equation  
 $f(x) = 0$

"Make sure to prove that  $f(x)$  is continue in  $[a, b]$ ... if you want a single solution."

# Numerical Analysis Bsc Bisection Method Notes

**D. Gottlieb, S. Orszag**



## **Numerical Analysis Bsc Bisection Method Notes:**

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**Numerical Analysis and Computer Programming** Pradip Narain and Tajender Singh Saluja, 2008 Pradip Narain popularly known as PN sir has been teaching undergraduate and post graduate students of Mathematics for over thirty years After topping the Delhi University in MA Mathematics from St Stephen s College he taught in the department of Mathematics Economics and Commerce at St Stephen s College Hindu College and Jesus and Mary College and in the department of Business Economics at University of Delhi South Campus He is currently the Director of Alpha Plus Study Circle Tajender Singh Saluja teaches NACP and Mechanics at PNs Alpha Plus Study Circle He is well known for his lucid effective style of teaching As a student he had received a silver medal in the National Mathematics Olympiad Salient Features Covers both Numerical Analysis NA and Computer Programming CP in a single volume Written strictly according to the syllabus and guidelines of BA BSc Mathematics Hons of Delhi University Also useful for other Indian Universities and Competitive Examinations Concepts methods 137 questions 76 examples and 58 assignments given in a simple step by step graded form Formulation of 59 programs made easy Perfect for self study no teacher required All guidelines problems fully solved All questions of University examinations since 1994 included and solved in the text at relevant places Contains Frequency Table indicating the importance of each topic

Numerical Analysis of Spectral Methods David Gottlieb, Steven A. Orszag, 1977-01-01 A unified discussion of the formulation and analysis of special methods of mixed initial boundary value problems The focus is on the development of a new mathematical theory that explains why and how well spectral methods work Included are interesting extensions of the classical numerical analysis

**An Introduction to the Numerical Analysis of Spectral Methods** Bertrand Mercier, 2014-08-23 This is a very lucid introduction to spectral methods emphasizing the mathematical aspects of the theory rather than the many applications in numerical analysis and the engineering sciences The first part is a fairly complete introduction to Fourier series while the second emphasizes polynomial expansion methods like Chebyshev s The author gives rigorous proofs of fundamental results related to one dimensional advection and diffusions equations The book addresses students as well as practitioners of numerical analysis

**Afternotes Goes to Graduate School** G. W. Stewart, 1998 Afternotes on Numerical Analysis is the result of the author writing down his notes immediately after giving each lecture

**Topics in Numerical Analysis** P. R Turner, 2014-01-15

Teapack Users' Manual Robert L. Johnston, 1982-01-01

Spectral Methods Jie Shen, Tao Tang, Li-Lian Wang, 2011-08-25 Along with finite differences and finite elements spectral methods are one of the three main methodologies for solving partial differential equations on computers This book provides a detailed presentation of basic spectral algorithms as well as a systematic presentation of basic convergence theory and error analysis for spectral

methods Readers of this book will be exposed to a unified framework for designing and analyzing spectral algorithms for a variety of problems including in particular high order differential equations and problems in unbounded domains The book contains a large number of figures which are designed to illustrate various concepts stressed in the book A set of basic matlab codes has been made available online to help the readers to develop their own spectral codes for their specific applications

Continuous Method in Numerical Analysis Applied to Examples from a New Class of Boundary Value Problems H. Melvin Lieberstein, University of Wisconsin--Madison. Mathematics Research Center, Mathematics Research Center (United States. Army), 1960

*Innovative Methods in Numerical Analysis* Association internationale pour les mathématiques et calculateurs en simulation, 1994

**Topic in Numerical Methods** John H. Halton, 1982

**Numerical Analysis of Spectral Methods: Theory and Applications** D. Gottlieb, S. Orszag, 1986

Numerical Analysis and Scientific Computing for Partial Differential Equations and Their Challenging Applications Rolf Stenberg, Jacques Periaux, Pekka Neittaanmäki, Juha Haataja, Peter Råback, 2008

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