

NUMERICAL METHODS - II

Solution of Algebraic and Transcendental Equations

Preliminaries:

A problem of great importance in science and engineering is that of determining the roots/zeros of an equation of the form $f(x) = 0$.

A polynomial equation of the form

$$f(x) = a_0 x^n + a_1 x^{n-1} + a_2 x^{n-2} + \dots + a_{n-1} x + a_n = 0$$

is called an **algebraic equation**. An equation which contains polynomials, exponential functions, trigonometric functions and logarithmic functions etc. is called transcendental equation.

Initial approximation for an iterative procedure:

We use the following theorem of calculus to determine an initial approximation. It is also called intermediate value theorem.

Theorem : If $f(x)$ is continuous on some interval $[a, b]$ and $f(a) f(b) < 0$, then the equation $f(x) = 0$ has at least one real root or an odd number of real roots in the interval (a, b) .

BISECTION METHOD

For definiteness, let $f(a)$ be negative and $f(b)$ be positive. Then the root lies between a and b and let its approximate value be given by

$x_0 = \frac{a+b}{2}$. If $f(x_0) = 0$, we conclude that x_0 is a root of the equation $f(x) = 0$. Otherwise the root lies between x_0 and b or between x_0 and a depending on whether $f(x_0)$ is positive or negative. We designate this new interval as $[a_1, b_1]$ whose length is $\frac{|b-a|}{2}$, as

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