



Introduction to Numerical Methods

Unit

12

12.1 Numerical Solution of Non-linear Equations

12.1.1 Describe importance of numerical methods

Till now, all the methods we have learnt to solve the non-linear equation and finding of the derivative or integration of functions are analytical methods.

When analytic approaches are failed to find the solution of a non-linear equation or require too many tedious computations then, mathematicians used numerical methods to compute approximate solution. Therefore, numerical methods have great importance in the field of mathematics.

12.1.2 Explain the basic principles of solving a non-linear equation in one variable

The basic principle of solving a non-linear equation is to find the interval (values of a and b) for a function $f(x)$, where $f(a)$ and $f(b)$ are of opposite signs such that $f(a) \cdot f(b) < 0$, then the root of $f(x) = 0$ lies in the interval $[a, b]$.

For example, $f(x) = x^3 - 2x - 5$, put the values of $x = 0, 1, 2, 3$ in $f(x)$, we get

$$f(0) = (0)^3 - 2(0) - 5 = -5$$

$$f(1) = (1)^3 - 2(1) - 5 = -6$$

$$f(2) = (2)^3 - 2(2) - 5 = -1$$

$$f(3) = (2)^3 - 2(3) - 5 = 16$$

Here $f(2) = -1 < 0$ (-ve) and $f(3) = 16 > 0$ (+ve),

such that $f(2) \cdot f(3) = (-1) \cdot (16) = -16 < 0$,

Now, root lies in the interval $[a, b] = [2, 3]$.

12.1.3 Calculate the real roots of a non-linear equation in one variable by

- Bisection method
- regula-falsi method
- Newton-Raphson method

• Bisection Method

The bisection technique is a root-finding method which repeatedly bisects an interval and then selects a sub-interval in which a root must lie for further processing. It is a very easy and reliable procedure.

Algorithm of a Bisection method

If $f(x)$ is a continuous function over an interval, then to find the root of $f(x) = 0$ by bisection method, following steps are taken.

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**Joel Mispelter, Mihaela Lupu, Andre
Briguet**



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develop an appreciation of the range of analytic options available so they can choose a research problem and then develop a suitable approach to data analysis *Guidelines for Vapor Cloud Explosion, Pressure Vessel Burst, BLEVE, and Flash Fire Hazards* CCPS (Center for Chemical Process Safety),2011-12-01 This guide provides an overview of methods for estimating the characteristics of vapor cloud explosions flash fires and boiling liquid expanding vapor explosions BLEVEs for practicing engineers It has been updated to include advanced modeling technology especially with respect to vapor cloud modeling and the use of computational fluid dynamics The text also reviews past experimental and theoretical research and methods to estimate consequences Heavily illustrated with photos charts tables and diagrams this manual is an essential tool for safety insurance regulatory and engineering students and professionals **Proceedings of the 2023 9th International**

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Theoretical Principles And Practical Guidelines (2nd Edition) Joel Mispelter, Mihaela Lupu, Andre Briguët, 2015-05-27 NMR Probeheads for Biophysical and Biomedical Experiments 2nd Edition is essential reading for anyone in the field of NMR or MRI from students to medical or biological scientists performing experiments under certain physical and or geometrical conditions unattainable by conventional or available probes The material guides the reader through the most basic and comprehensive stages in accomplishing a correct probe design from a very basic oscillating circuit to much more elaborate designs This new edition has been revised and updated to include a chapter dedicated to RF components which are commonly used for probes realization and their frequency dependent characteristics Another completely revised chapter concerns the multiple coil systems and discusses arrays coils different decoupling methods and some principles for interfacing coils with low noise preamplifiers The principles of linear circuit analysis are presented in a dedicated chapter Last but not least accompanying files containing updated software for probe design have been made available from the publisher s website **Publications - United States. National Bureau of Standards** United States. National Bureau of Standards, 1960 **Handbook of Biodiversity Methods** David Hill, Matthew Fasham, Graham Tucker, Michael Shewry, Philip Shaw, 2005-08-11 Biodiversity is recognised to be of global importance yet species and habitats continue to be

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