

Numerical Analysis

- 1- Taylor Series $= \frac{f(c)}{0!} (x - c)^0 + \frac{f'(c)}{1!} (x - c)^1 + \frac{f''(c)}{2!} (x - c)^2 \dots$
- 2- Maclaurin series $= \frac{f(0)}{0!} + \frac{f'(0)}{1!} (x)^1 + \frac{f''(0)}{2!} (x)^2 \dots$
- 3- Relative Error (RE) $= \left| \frac{x-x}{x} \right| * 100$ 4- Absolute Error (AE) = $|X - x|$ $\epsilon = .0001$
-

- Solving non Linear Equation , using iteration Methods :

- 1- Bisection Method :** Given : $a, b - f(c)$
 Sol : $a, b, c - f(c)$ $c = a + b/2$
-

2- Newton Method :

- Solving 1 non Linear Equation

- Given : $x - f(x)$
 Sol : $f(x), f'(x) - x_2$ $x_2 = x_1 - \frac{f(x)}{f'(x)}$

- Solving 2 non Linear Equation

- Given : $x_0, y_0 - f_1(x_1, y_1) - f_2(x_1, y_1)$

$$J_0 = \begin{bmatrix} f'_1 & f'_2 \\ f'_3 & f'_4 \end{bmatrix} \begin{bmatrix} x \\ y \end{bmatrix} \quad J_0^{-1} = \frac{1}{|J_0|} \begin{bmatrix} f'_4 & -f'_2 \\ -f'_3 & f'_1 \end{bmatrix} = [J_0^{-1}] \text{ Matrix Inverse}$$

$$\begin{bmatrix} x_1 \\ y_1 \end{bmatrix} = \begin{bmatrix} x_0 \\ y_0 \end{bmatrix} - [J_0^{-1}] \begin{bmatrix} v_1 \\ v_2 \end{bmatrix}$$

3- Secant Method :

- Given : $x_0, x_1 - f(x)$
 Sol : $f(x_0), f(x_1), x_2$ $x_2 = x_1 - \frac{f(x_1)(x_0 - x_1)}{f(x_0) - f(x_1)}$
 $f(x_1), f(x_2), x_3$
-

4- Fixed-Point :

- Given : x_0, root $f(x) < [\text{root}]$
 $f'(x) < 1$
 Sol : $x_1 = f(x_0)$
 $x_2 = f(x_1)$

Numerical Analysis 8th Edition Homework Solutions

Christian Drosten



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