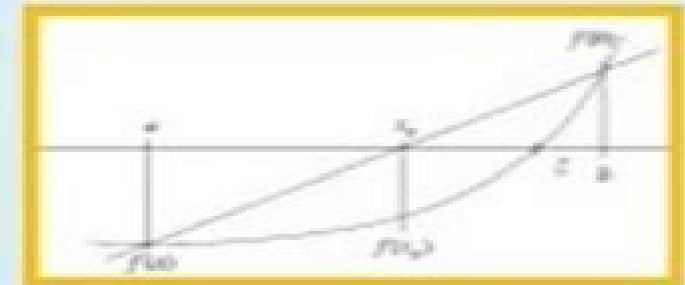


$$\begin{bmatrix} 2.6 & 1.0 & -1.0 \\ 3.2 & -0.5 & 1.0 \\ -4.6 & 1.0 & 2.0 \end{bmatrix} \begin{bmatrix} x_1 \\ x_2 \\ x_3 \end{bmatrix} = \begin{bmatrix} -5.4 \\ -2.3 \\ 15.9 \end{bmatrix}$$

$$R_{i,j} = \frac{4^{j+1} R_{i,j-1} - R_{i-1,j-1}}{4^{j+1} - 1}$$

```
Private Sub Button_Click1(ByVal x0 As Double, ByVal x1 As Double)
    Dim x1, x2, f(x), diff As Single
    If x1 < 0 Then
        Go To
    End
    x2 = x1 - Math.Cos(x0)
    f(x1) = 1 + Math.Sin(x0)
    If f(x1) < 0 Then
        count = count + 1
        x1 = x0 - x2 / f(x0)
        diff = Math.Abs(x1) - x0
        UseCount, f(x1), Add(count)
    End If
End Sub
```



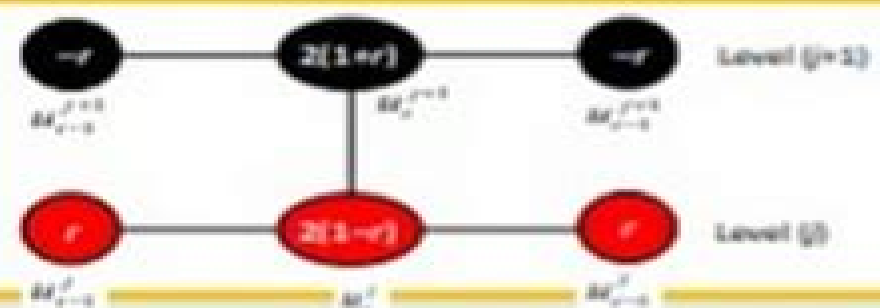
Numerical Computations

using Visual Basic

AB RAHMAN AHMAD, PhD

$$\frac{\partial^2 u}{\partial x^2} + \frac{\partial^2 u}{\partial y^2} = f(x, y)$$

$$\frac{\partial u}{\partial t} = a \frac{\partial^2 u}{\partial x^2}$$



$$\frac{dy}{dx} = x^2 - y, \quad 0.0 \leq x \leq 1.0$$

$$\int_0^{\pi} r^2 \sin r \, dr$$

$$y''(x) = f(x, y, y'), \quad a \leq x \leq b$$

Numerical Basic

D Kirk



Numerical Basic:

This book delves into Numerical Basic. Numerical Basic is a vital topic that must be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Numerical Basic, encompassing both the fundamentals and more intricate discussions.

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- Chapter 2: Essential Elements of Numerical Basic
- Chapter 3: Numerical Basic in Everyday Life
- Chapter 4: Numerical Basic in Specific Contexts
- Chapter 5: Conclusion

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