

CHAPTER 2

2.1 Two possible versions can be developed:

```

IF x ≥ 10 THEN
  DO
    x = x - 5
    IF x < 50 EXIT
  END DO
ELSE
  IF x < 3 THEN
    x = 5
  ELSE
    x = 7.5
  END IF
ENDIF

```

```

IF x ≥ 10 THEN
  DO
    x = x - 5
    IF x < 50 EXIT
  END DO
ELSEIF x < 3
  x = 5
ELSE
  x = 7.5
ENDIF

```

2.2

```

DO
  i = i + 1
  IF x > 50 EXIT
  x = x + 5
  IF x > 5 THEN
    y = x
  ELSE
    y = 0
  ENDIF
  z = x + y
ENDDO

```

2.3 Students could implement the subprogram in any number of languages. The following VBA program is one example. It should be noted that the availability of complex variables in languages such as Fortran 90 would allow this subroutine to be made even more concise. However, we did not exploit this feature, in order to make the code more compatible with languages that do not support complex variables.

```

Option Explicit

Sub Rootfind()
  Dim ier As Integer
  Dim a As Double, b As Double, c As Double
  Dim r1 As Double, i1 As Double, r2 As Double, i2 As Double
  a = 7: b = 6: c = 2
  Call Roots(a, b, c, ier, r1, i1, r2, i2)
  If ier = 0 Then
    MsgBox "No roots"
  ElseIf ier = 1 Then
    MsgBox "single root=" & r1
  ElseIf ier = 2 Then
    MsgBox "real roots = " & r1 & ", " & r2
  ElseIf ier = 3 Then
    MsgBox "complex roots = " & r1 & ", " & i1 & " i" & "; " & r2 & ", " & i2 & " i"
  End If
End Sub

Sub Roots(a, b, c, ier, r1, i1, r2, i2)
  Dim d As Double
  r1 = 0: r2 = 0: i1 = 0: i2 = 0

```

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Process Dynamics and Control Dale E. Seborg, Duncan A. Mellichamp, Thomas F. Edgar, Francis J. Doyle, III, 2010-04-12 This third edition provides chemical engineers with process control techniques that are used in practice while offering detailed mathematical analysis. Numerous examples and simulations are used to illustrate key theoretical concepts. New exercises are integrated throughout several chapters to reinforce concepts. Up-to-date information is also included on real-time optimization and model predictive control to highlight the significant impact these techniques have on industrial practice. And chemical engineers will find two new chapters on biosystems control to gain the latest perspective in the field.

Thermal System Design and Simulation P.L. Dhar, 2016-10-25 *Thermal System Design and Simulation* covers the fundamental analyses of thermal energy systems that enable users to effectively formulate their own simulation and optimal design procedures. This reference provides thorough guidance on how to formulate optimal design constraints and develop strategies to solve them with minimal computational effort. The book uniquely illustrates the methodology of combining information flow diagrams to simplify system simulation procedures needed in optimal design. It also includes a comprehensive presentation on dynamics of thermal systems and the control systems needed to ensure safe operation at varying loads. Designed to give readers the skills to develop their own customized software for simulating and designing thermal systems, this book is relevant for anyone interested in obtaining an advanced knowledge of thermal system analysis and design. Contains detailed models of simulation for equipment in the most commonly used thermal engineering systems. Features illustrations for the methodology of using information flow diagrams to simplify system simulation procedures. Includes comprehensive global case studies of simulation and optimization of thermal systems.

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