

36. The roots of a cubic equation $a_3x^3 + a_2x^2 + a_1x + a_0 = 0$ can be calculated using the following procedure:

Set: $A = a_2 / a_3$, $B = a_1 / a_3$, and $C = a_0 / a_3$.

Calculate: $D = Q^3 + R^2$,

where $Q = (3B - A^2) / 9$ and $R = (9AB - 27C - 2A^3) / 54$.

If $D > 0$ the equation has complex roots.

If $D = 0$ all roots are real and at least two are equal. The roots are given by:

$x_1 = 2\sqrt[3]{R} - A/3$, $x_2 = -\sqrt[3]{R} - A/3$, and $x_3 = -\sqrt[3]{R} - A/3$.

If $D < 0$ all roots are real and are given by:

$x_1 = 2\sqrt[3]{-Q \cos(\theta/3)} - A/3$, $x_2 = 2\sqrt[3]{-Q \cos(\theta/3 + 120^\circ)} - A/3$, and

$x_3 = 2\sqrt[3]{-Q \cos(\theta/3 + 240^\circ)} - A/3$, where $\cos \theta = R / \sqrt[3]{-Q^3}$.

Write a MATLAB program that determines the real roots of a cubic equation. As input the program asks the user to enter the values of a_3 , a_2 , a_1 , and a_0 as a vector. The program then calculates the value of D . If the equation has complex roots the message "The equation has complex roots" is displayed. Otherwise the real roots are calculated and displayed. Use the program to solve the following equations:

(a) $5x^3 + -34.5x^2 + 36.9x + 8.8 = 0$ (b) $2x^3 + -10x^2 + 24x - 15 = 0$

(c) $2x^3 + -1.4x^2 - 20.58x + 30.87 = 0$

Solution

Script File:

```
v=input('Enter the values of a3, a2, a1, and a0 as a
vector: ');
a=v(2)/v(1); b=v(3)/v(1); c=v(4)/v(1);
Q=(3*b-a^2)/9;
R=(9*a*b-27*c-2*a^3)/54;
D=Q^3+R^2;
if abs(D)<0.01
    D=0;
end
if D > 0
    disp('The equation has complex roots.')
elseif D ==0
    S=nthroot(R,3);
    x1=2*S-a/3;
    x2=-S-a/3;
```

Matlab Solutions For Chapter 5

Dingyü Xue



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Differential Equations with Matlab Brian R. Hunt, Ronald L. Lipsman, John E. Osborn, Jonathan M. Rosenberg, 2019-09-24 A supplemental text that can enrich and enhance any first course in ordinary differential equations This supplement helps instructors move towards an earlier use of numerical and geometric methods place a greater emphasis on systems including nonlinear ones and increase discussions of both the benefits and possible pitfalls in numerical solution of ODEs By providing an introduction to the software that is integrated with the relevant mathematics Differential Equations with MATLAB can perfectly complement and enhance other texts from Wiley Since the third edition of Differential Equations with MATLAB first appeared in 2012 there have been many changes and enhancements to MATLAB and Simulink These include addition of live scripts new plotting commands and major changes to the Symbolic Math Toolbox This revised version brings the text completely up to date with the 2019a release of MATLAB Modern Engineering Mathematics Abul Hasan Siddiqi, Mohamed Al-Lawati, Messaoud Boulbrachene, 2017-12-22 This book is a compendium of fundamental mathematical concepts methods models and their wide range of applications in diverse fields of engineering It comprises essentially a comprehensive and contemporary coverage of those areas of mathematics which provide foundation to electronic electrical communication petroleum chemical civil mechanical biomedical software and financial engineering It gives a fairly extensive treatment of some of the recent developments in mathematics which have found very significant

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