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*method for solving  
nonlinear systems of  
Algebraic equations*

Solving a nonlinear  
system of equations

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equations Solve a  
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Equations (Linear and  
Quadratic) Solving  
system of nonlinear

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~~equations using  
Newton method  
Nonlinear System by  
Newton Raphson~~

~~Example Newton  
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nonlinear system of  
equations using  
MATLAB. Solving a  
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~~Solving a System of  
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by Graphing Solving  
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Method Solving Non-  
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System of Nonlinear  
Equations by  
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**Mathematical Tools**

**– 1 Introduction**

~~Solving Nonlinear  
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~~Substitution~~

Newton-Raphson

(multi Variable) Solve

*Nonlinear Equations*

*with MATLAB* **Solve**

**System of Non**

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Module 1 lecture 4  
Non linear system  
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4 :~ Newton Raphson  
Method for System of  
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(An example  
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pendulum is given by

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$$ml\ddot{\theta} = -mg \sin \theta - kl\dot{\theta}$$

, where  $l > 0$  is the length of the pendulum,  $m > 0$

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### **EXERCISE 7.23**

Consider the following  
nonlinear system:  $\dot{x}$

$$\begin{aligned} \dot{x}_1 &= x_1 + x_2 \\ \dot{x}_2 &= \sin(x_1 - x_2) + u \end{aligned}$$

(a) Show

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that the system is on  
strict feedback form.  
(b) Design a controller  
based on back-  
stepping for the  
system. EXERCISE

7.24 Consider the  
following nonlinear  
system:  $\dot{x}_1 = \text{sat}(x_1) + x_1 x_2$   
 $\dot{x}_2 = x_1 x_2 + u$

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Hassan Khalil retired  
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There are five possible types of solutions to the system of nonlinear equations representing an ellipse and a circle:

- (1) no solution, the circle and the ellipse do not intersect;
- (2) one solution, the circle and the ellipse are tangent to each other;
- (3) two

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Solutions, the circle and the ellipse intersect in two points; (4) three solutions, the circle and ellipse intersect in three places; (5) four solutions, the circle and the ellipse intersect in four points.

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