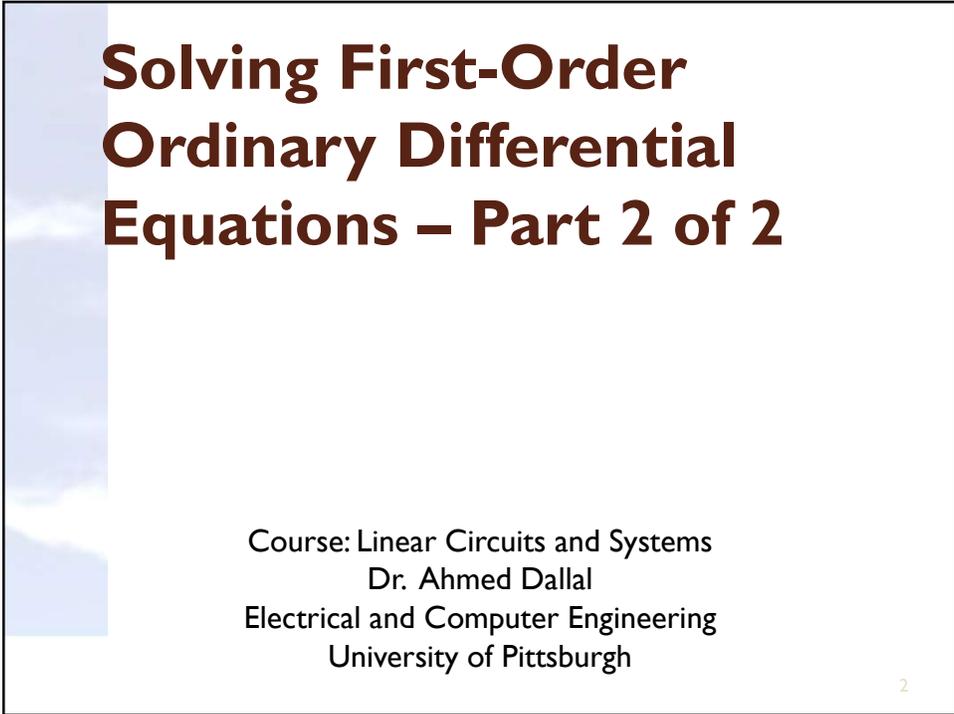




- Linear Circuits and Systems



## **Solving First-Order Ordinary Differential Equations – Part 2 of 2**

Course: Linear Circuits and Systems  
Dr. Ahmed Dallal  
Electrical and Computer Engineering  
University of Pittsburgh

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## Example 1

- Solve the ordinary differential equation exactly

$$3 \frac{dy}{dx} + 2y = e^{-x}, y(0) = 5$$



## Example 2

- Solve the ordinary differential equation exactly

$$\frac{dy}{dx} + 2y = 50, y(0) = 40$$





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