

Lecture 10: The Linear-Quadratic Problem

Problem Statement

Suppose we have a system

- 1. $x'' + 2x' + 2x = 0$ (homogeneous equation)
- 2. $x'' + 2x' + 2x = 1$ (non-homogeneous equation)

Proposition

For this system, we will be given a set of initial conditions. We will be given a set of initial conditions $x(0) = x_0$ and $x'(0) = v_0$. We will be given a set of initial conditions $x(0) = x_0$ and $x'(0) = v_0$. We will be given a set of initial conditions $x(0) = x_0$ and $x'(0) = v_0$.

Methodology

We will use the method of undetermined coefficients to find a particular solution. We will use the method of undetermined coefficients to find a particular solution. We will use the method of undetermined coefficients to find a particular solution.

$$x'' + 2x' + 2x = 1$$

We assume that the particular solution is of the form $x_p(t) = A$. We assume that the particular solution is of the form $x_p(t) = A$. We assume that the particular solution is of the form $x_p(t) = A$.

Substituting $x_p(t) = A$ into the equation, we get $0 + 0 + 2A = 1$. Substituting $x_p(t) = A$ into the equation, we get $0 + 0 + 2A = 1$. Substituting $x_p(t) = A$ into the equation, we get $0 + 0 + 2A = 1$.

$$2A = 1 \implies A = \frac{1}{2}$$

Therefore, the particular solution is $x_p(t) = \frac{1}{2}$. Therefore, the particular solution is $x_p(t) = \frac{1}{2}$. Therefore, the particular solution is $x_p(t) = \frac{1}{2}$.

The general solution is $x(t) = x_h(t) + x_p(t)$. The general solution is $x(t) = x_h(t) + x_p(t)$. The general solution is $x(t) = x_h(t) + x_p(t)$.

$$x(t) = C_1 e^{-t} \cos t + C_2 e^{-t} \sin t + \frac{1}{2}$$

Using the initial conditions, we can solve for C_1 and C_2 . Using the initial conditions, we can solve for C_1 and C_2 . Using the initial conditions, we can solve for C_1 and C_2 .

Nine Solution Problem Lab Answers

Jianjun Gao



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