advanceddifferentialequationsmdraisinghaniapdf

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chapter.pdf Roughly speaking, i have to calculate the problem for a second order ODE, where it is also given a solution along with the ODE. What i know is, if i know the exact value of the solution $x(t)$, then i can calculate the $a(x(t))$. But in this case, its a first order ODE, and i dont know the exact value. And i tried to use homogeneous solution, but it leads to complicated calculations. A: Since $y(x)$ satisfies the homogeneous differential equation, we have $$y(x)=y_h(x)e^{ -\lambda x} \tag1$$ where $y_h(x)$ is a particular solution. Now, if $y_h(x)$ is a known function, then we can just substitute (1) into the ODE

and use the product rule on $e^{\lambda x}$ and $e^{ -\lambda x}$ to arrive at $$y'(x) - \lambda y(x)=0 \tag2$$ that is, the same equation as the original ODE. We then just need to solve the characteristic equation to find λ. However, the difficulty in this case comes in finding the particular solution, $y_p(x)$. If you don't know $y_h(x)$, there are some suggestions here for how to find it. Sheriff: Man tried to rob Homestead bank HOMESTEAD, Fla. -- An accused robber who fled from police Tuesday morning is now in jail, after deputies found him trying to rob the Homestead branch of a local bank. Homestead police responded to the bank at 200 Homestead Ave. about 10:15 a.m. Tuesday. Deputies said the suspect entered the bank and gave the teller a note demanding money. The teller handed the suspect $100 in cash, but the suspect fled the scene, and the teller never had a chance to tell deputies what the suspect looked like, according to the arrest affidavit. The suspect is described as a black man, about 40 years old, wearing a white shirt and black pants. He was captured on surveillance video while wearing a yellow shirt. Deputies searched the area, and were able to find the suspect with 82157476af