

01.10.2019

ELL333

Observer design for bicycle.

- Observer gains ^{may} amplify noise
(need a noise model to make quantitative choices)
- Typically, observer eigenvalues should be faster than controller eigenvalues

Quiz 8

1. Discuss the following statement (in words and/or equations)

"The separation principle is so disarmingly simple that it almost comes as a surprise: it is hard to imagine that the observer designed for a known input can serve to estimate the state of the process for the purpose of generating the control input." — Friedland.