MASSACHUSETTS INSTITUTE OF TECHNOLOGY

2.152/9.110 Nonlinear Control System Design

Spring 2020

TR 1:00 - 2:30 Room 1-150

Professor Jean-Jacques Slotine
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Office hours: TBD

GRADING:

Homework	15%
Midterm	35%
Term Paper	50%
	100%

Course Secretary: Emilie Heilig, 3-359; eheilig@mit.edu

Website: https://stellar.mit.edu/S/course/9/sp20/9.110J/

Prerequisite: Familiarity with basic linear state-space control concepts (e.g., 2.151, or 6.241, or 6.233J, or 16.33, or 16.341J; or equivalent)

Course Text

Slotine and Li	Applied Nonlinear Control Prentice-Hall

Additional Reading

Astrom and Wittenmark	Adaptive Control Addison-Wesley
Desoer and Vidyasagar	Feedback Systems: Input-Output Properties Academic Press
Goodwin and Sin	Adaptive Filtering, Prediction and Control Prentice-Hall
Isidori	Nonlinear Control Systems Springer-Verlag
Khalil	Nonlinear Systems MacMillan
Mallat	A Wavelet Tour of Signal Processing Academic Press
Narendra and Annaswamy	Stable Adaptive Systems Prentice-Hall
Vidyasagar	Nonlinear Systems Analysis Prentice-Hall

http://mit.edu/nsl/www/videos/lectures.html