

Models of Motor Learning

Homework 2

1. Generate the following plots to match the plots in the lecture slides. Most of the equations are taken from Thelen 2003 or from Buchanan 2004, if you need help, although the notation is a little different.
 - a. Active force length curve
 - b. Passive force length curve
 - c. Velocity force curve
 - d. Force velocity curve
 - e. Tendon strain curve
 - f. Activation dynamics
2. Program a Hill-type model as described in the lecture and replicate the three graphs in the slides:
 - a. 600 ms stimulus at 1.0
 - b. 5 ms stimulus at 1.0
 - c. Constant stimulus at 0.6