ENME 621

ROBUST AND ADAPTIVE LINEAR CONTROL — Prof. M. Krstic

Homework 5

Due October 24, 1995

1. Green & Limebeer, Problem 6.8.
2. Green & Limebeer, Problem 6.9.
   What is the point of this EASY problem? Give a brief interpretation.
3. Green & Limebeer, Problem 6.11.
   Do only Parts 1 and 2.
   The only if direction in Part 2 is difficult.
   This is an important result—it gives the minimal (optimal) achievable performance level γ.
4. Green & Limebeer, Problem 6.15.
   Don't get confused, this problem is VERY EASY.
   Notation: $\mathcal{F}_l(G_2, -F_2) : z_1 \mapsto z_2$ and $\mathcal{F}_u(G_1, -F_1) : z_2 \mapsto z_1$.