

Homework #3  
Due Fr. 2/18

You must turn in your code as well as output files. Please generate a report that contains the code and output in a single readable format.

Visit the book website to download companion software, including all the example problems.

<http://www.wiley.com/WileyCDA/WileyTitle/productCd-1118414322.html>

1. (KLT 4.5)

2. (KLT 4.7)

3. (KLT 4.9)

All realizations should use DFII. Cascade realizations should account for numerical effects. Compare the result with Matlab's cascade. Only one parallel realization is required.

4. (KLT 4.10)

Please provide a  $1 \times 2$  subplot of the magnitude and phase response as well as the  $a$  and  $b$  coefficient vectors.

5. (KLT 4.12)

6. (KLT 4.13)

7. (KLT 4.14)

8. (KLT 4.18)