ELEMENTARY NOTATIONS AND TERMINOLOGIES

Some of the commonly used notations and terminologies used throughout the thesis are as following

 $G_n(s)$ Higher order continuous time interval system $R_k(s)$ Reduced order continuous time interval system $G_n(z)$ Higher order discrete time interval system $R_k(z)$ Reduced order discrete time interval system Order of the original system n Order of the reduced order system k **SISO** Single-Input- Single- Output Multi-Input- Multi- Output MIMO **ISE** Integral Square Error Integral Absolute Error IAE

Eigen values of $G_n(s)$ or poles of $G_n(s)$

Belong to

λ

 \in