embedded observer 5 z<sub>1</sub> Error  $10^{-2}$ z<sub>1</sub> Error  $10^{-5}$  $Z_1$  $10^{-8}$  $z_1$  nominal  $10^{-11}$  $\hat{z}_1$  observer z<sub>2</sub> Error 10<sup>0</sup> 2 **Z**<sub>2</sub>  $z_2$  nominal  $10^{-9}$ **-**2  $\hat{z}_2$  observer z<sub>3</sub> Error  $z_3$  nominal 4  $\hat{z}_3$  observer  $10^{1}$ 2 10<sup>-3</sup> **Z**<sub>3</sub> **-**2  $10^{-7}$ -4 z<sub>4</sub> Error 10  $10^{4}$ v 10<sup>-2</sup> 10<sup>-2</sup> **Z**4 0  $z_4$  nominal  $10^{-5}$ -10---  $\hat{z}_4$  observer 100 10<sup>7</sup> z<sub>5</sub> Error  $10^{4}$ Z<sub>5</sub> Error  $Z_5$  $10^{1}$  $z_5$  nominal  $10^{-2}$  $\hat{z}_5$  observer -10010<sup>8</sup>  $z_6$  nominal z<sub>6</sub> Error 1000  $\hat{z}_6$  observer 10<sup>5</sup> Z<sub>6</sub> Error 0  $10^{2}$  $10^{-1}$ -10000 10 20 30 40 50 60 70 80 0 10 20 30 40 50 60 70 80 Time (s) Time (s)