

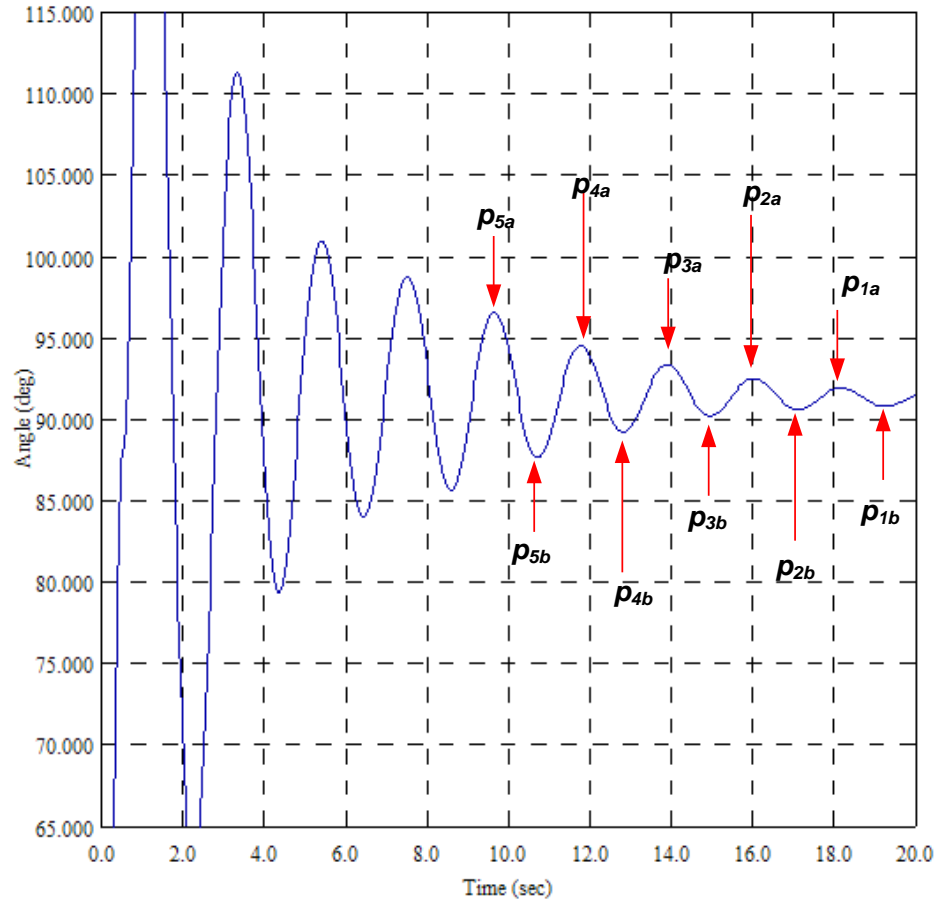
## Example

Last 5 peak-peak magnitudes:

- 1) max = 96.580 time = 9.654  
min = 87.661 time = 10.712  
peak-peak = 8.918
- 2) max = 94.526 time = 11.771  
min = 89.222 time = 12.829  
peak-peak = 5.304
- 3) max = 93.371 time = 13.904  
min = 90.226 time = 14.962  
peak-peak = 3.146
- 4) max = 92.512 time = 16.021  
min = 90.611 time = 17.113  
peak-peak = 1.901
- 5) max = 91.941 time = 18.163  
min = 90.811 time = 19.246  
peak-peak = 1.129

Average Damping (last 5 peak-peak):  
40.347 %

Ave. Freq. Oscillation (last 5 peak-peak):  
0.470 Hz



$$p_1 = p_{1a} - p_{1b} = 1.129$$

$$p_2 = p_{2a} - p_{2b} = 1.901$$

$$p_3 = p_{3a} - p_{3b} = 3.146$$

$$p_4 = p_{4a} - p_{4b} = 5.304$$

$$p_5 = p_{5a} - p_{5b} = 8.918$$

$$d_1 = 1 - (1.129/1.901) = 0.406102$$

$$d_2 = 1 - (1.901/3.146) = 0.395741$$

$$d_3 = 1 - (3.146/5.304) = 0.406863$$

$$d_4 = 1 - (5.304/8.918) = 0.405248$$

$$\text{Average Damping Ratio} = (d_1 + d_2 + d_3 + d_4) \times 100 / 4 = 40.35\%$$