

## Closed loop bandwidth veci u slucaju sa oversamplingom?!

- Knjiga Grid Side Converters (Vukosavic):

### 5.1 Discrete-time controller with center-pulse sampling 147

**Table 5.1:** Closed loop performance of the decoupling controller

Gain $\alpha_D$	VM	$f_{BW}(45^\circ)$	$f_{BW}(-3 \text{ dB})$	Overshoot
0.20	0.7608	$0.0263/T_S$	$0.0497/T_S$	0
0.25	0.7071	$0.0332/T_S$	$0.0732/T_S$	0
0.30	0.6547	$0.0374/T_S$	$0.1035/T_S$	0.0119
0.35	0.6034	$0.0430/T_S$	$0.1341/T_S$	0.0579
0.40	0.5531	$0.0481/T_S$	$0.1603/T_S$	0.12

### 5.2 Current controller with oversampling-based feedback 153

**Table 5.2:** Closed loop performance with  $W_{CL}$  of (5.25)

Gain $\alpha_D$	VM	$f_{BW}(45^\circ)$	$f_{BW}(-3 \text{ dB})$	Overshoot
0.15	0.7218	$0.0227/T_S$	$0.0434/T_S$	0.0001
0.20	0.6423	$0.0298/T_S$	$0.0708/T_S$	0.0445
0.25	0.5664	$0.0370/T_S$	$0.0939/T_S$	0.1406
0.30	0.4935	$0.0442/T_S$	$0.1110/T_S$	0.2510
0.35	0.4230	$0.0513/T_S$	$0.1245/T_S$	0.3558
0.4	0.3548	$0.0585/T_S$	$0.1349/T_S$	0.4840

- Rezultati MATLAB skripte:

