

Figure 3b

Table 3

S. no.	connection	Parameter used	Effect
1.	For Connection 3 When the breaker open	$R_L=30,0.010$	Amplitude low
		$R=20$	
		$L=0.05$	
2.	When the breaker closed	$R_L=200,0.020$	Amplitude high
		$R=100$	
		$L=0.010$	

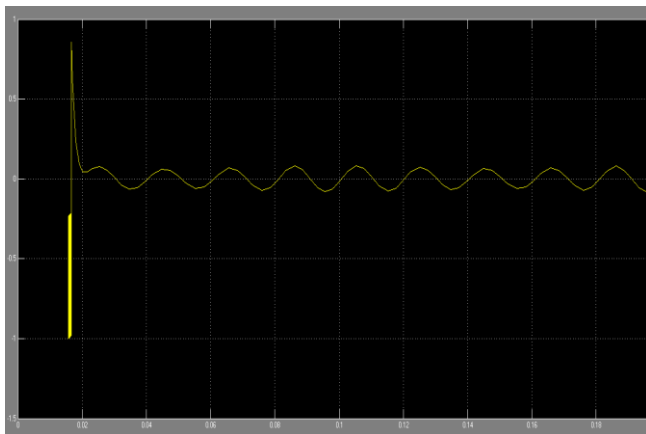


Figure 3c: when beaker is open

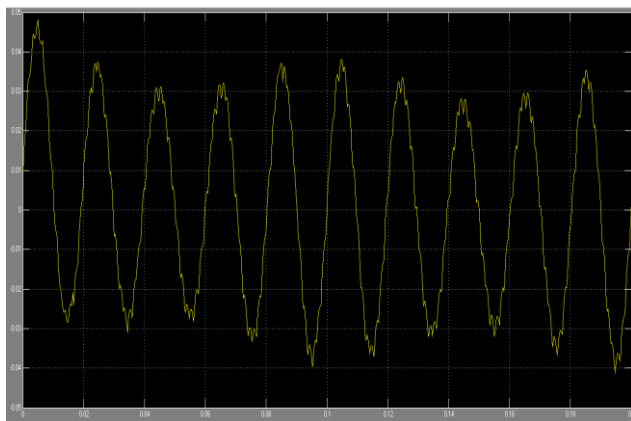


Figure 3d: When breaker is closed

line can be controlled using series injected voltage. A simulink model of the UPFC has been developed shunt and series sources. converter 1 represented as a shunt current source and converter 2 represented as a series voltage source shown in Fig.4. Load voltage and load current Waveforms shown in Fig. 4a. Real and reactive power shown in Fig. 4b.

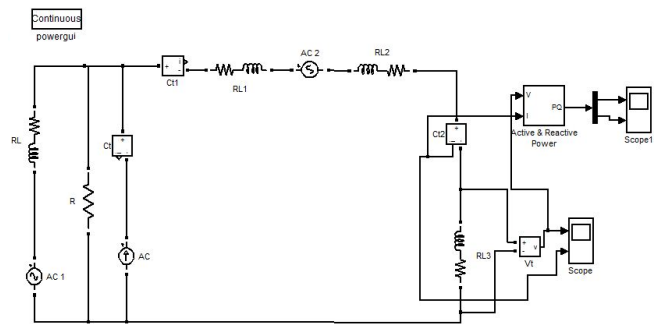


Figure 4: Simulink model of UPFC Shunt and Series sources

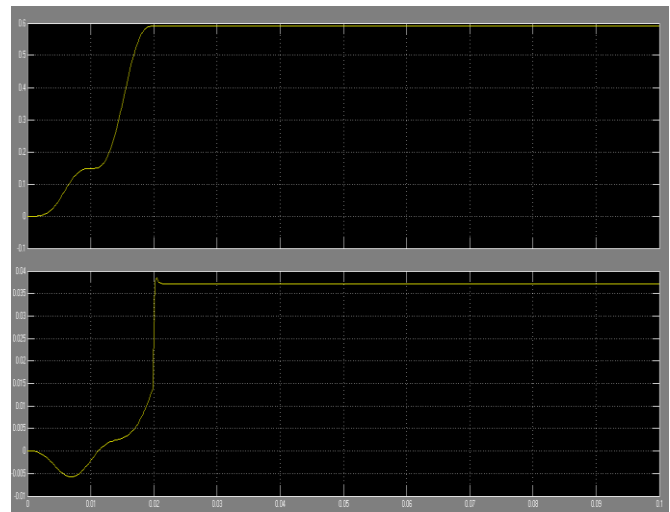


Figure 4a: Real and reactive power

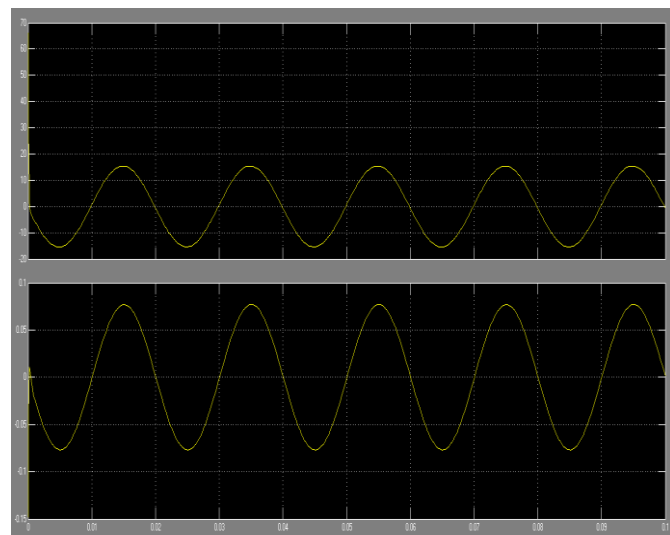


Figure 4b: Load voltage and current waveform

UPFC

The UPFC is to control the flow of real and reactive power by injection of a voltage in series with the transmission line. Both the magnitude and phase angle of the voltage can be varied independently. The real and reactive power flow in the

5. Conclusion

In this paper, the performance of Eleven bus system and UPFC system. We has been present uncompensated Eleven

bus system different condition of between voltage and sample time. This system voltage increase then also sample time increase. when breaker is open then amplitude is low and breaker is close then amplitude is high in this system. Simulink model of UPFC series and shunt sources shown real power, reactive power, load voltage and current waveforms. Eleven bus system are economical for fourteen, nine bus system because Eleven bus system results are good for other bus system .In figure 3a voltage is high in particular time after amplitude is low and figure 3b amplitude is high but some distortion of the point.

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