

Examples 4

Topic	Filename = Versions	PF*	Notes
Buck converter	Chopper1_R	Pd**	ohmic load only
	Chopper2_RL	Pd**	ohmic inductive load only
	Chopper3_RLC	X	real coil, ohmic capacitive load, one path only (m=1), POG ¹ in parallel, steady state values
	Chopper4_mRLC	X	real coil, ohmic capacitive load, three paths (m=3), POG ¹ in parallel, steady state values
	Chopper4a_mRLC	-	comparison of 3 and 4
Boost converter	BoostConverter1_R	Pd**	Ideal coil, ohmic load only
	BoostConverter2_RC	Pd**	Ideal coil, ohmic capacitive load only
	BoostConverter4_RC	X	real coil, ohmic capacitive load, one path only (m=1), POG ¹ in parallel, steady state values
	BoostConverter5_mRC	X	real coil, ohmic capacitive load, three paths (m=3), POG ¹ in parallel, steady state values
	BoostConverter5a_mRC	-	comparison of 4 and 5
	BoostConverter6_CasElCirSwi	X	"L/R - switch - C/R" twice serial
Wire element (transmission line, cable, ...)	CascadedElectricCircuit	X	"L/R - C/R" thrice serial
Chua's circuit	ChuasCircuit	Pd**	Chaos generator in two variants including a current resp. a voltage source for modelling of a non-linear resistance
Twin-T Band-Stop Filter	BandStopFilter	Pd**	three resistors and inductances, test via frequency mix; BandStopFilter_BodeDiag.gif

PF*: Automatically loadable parameter file available and useable for additional files of same topic. Pre-condition for use: the corresponding directory was included in search path or is identical to the current directory.

Pd**: Parameter directly inserted in block masks

POG¹: Power Oriented Graph (by Zanasi, R. - University Modena Italy)

Topic	Filename = Versions	PF*	Notes
Circuit with diode and R	Diode_R_TF_RC	Pd**	Sinusoidal source voltage, RC load (comparison with ICBGM 2007 paper)
Circuit with diode and L	Diode_L_2TF_RC	Pd**	Sinusoidal source voltage, RC load (comparison with ICBGM 2007 paper)

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