

## Examples 1

Topic	Filename = Versions	PF <sup>*</sup>	Notes
Rotating DC machine driving an elastic shaft	ElaWe_GM_ZuReg	X	with state control structure
	ElaWe_GM	-	without control
	ElaWe_GM_ZuReg_ERW	-	with state control structure and power
Rotating DC machine driving a stiff shaft	GM_EE	Pd <sup>**</sup>	with computation of energy efficiency, power and energy
Belt conveyor	Foerderband_Skalar	X	structure of a scalar Bond Graph consisting of 3 KVE's per motion direction
	Foerderband_KV_Element	-	one Kelvin-Voigt Element (KVE); power
	Foerderband_KV_Element_ERW	-	KVE: versions by comparison; power
	Foerderband_Vektoriell	X	structure of a vectorial Bond Graph with one 1-node only, number of elements fixed by matrices, scalar model in parallel
Pendulum	Pendel_Borutzki	X	two variants regarding separated resp. common consideration of mass and moment of inertia simulated in parallel to ODE
Clutch in hybrid electric vehicles	Clutch_Lhomme	Pd <sup>**</sup>	scalar and vectorial Bond Graph in parallel; without structure shift in comparison to the reference (EMR <sup>1</sup> ); no Bond Graph internal non-linearity but non-linear source element

PF<sup>\*</sup>: 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<sup>\*\*</sup>: Parameter directly inserted in block masks

EMR<sup>1</sup> : Energetic Macroscopic Representation (by Bouscayrol, A. / University Lille, France)