

## Changes (250 characters limit)

- 2010-04-28 Bug fix regarding TF in vector / matrix mode – last(s) elements zero
- 2008-11-14 Reactivated links within block help; two new examples: sinusoidal source voltage, R resp. L, diode, RC load; "description" contains a link to the homepage now
- 2008-07-18 (mixed causality); bug fix regarding Nodes (loophthroughing); enhancements regarding GY / TF (unified parameter input / transpose operation); new examples gimbal + traction drive (POG parallel) – two versions each + reference
- 2008-03-10 Node block enhancement: Special case "alternative power variable input" offers a checkbox "Bidirectional negative sign for first CPP". So far a trick was used - now checkbox is available. Please compare example "BandStopFilter" (Node\_0D) in circuits
- 2008-02-01 Enhancements: SD (vector input), ICS (power variable: initial values), contents.m: ver.m fitted, documentation; 3 new examples: cascaded electric circuit, switched cascaded electric circuit, spring cable cylinder; asynchronous machine: 3 compact BGs
- 2007-11-16 New example: band-stop filter; enhanced documentation: special case of a node connection
- 2007-10-23 New examples: buck and boost converter models; including Power Oriented Graph (POG) in parallel as well as dimension  $m=1$  and  $m=3$  [see chopper models: 3 and 4 resp. boost converter models: 4 and 5]; Clutch model for hybrid electric vehicles; Contents.m
- 2007-05-09 New example: two variants of Chua's Circuit (chaos generator with F-source resp. E-source); Enhancement of TF-element for use as switch;
- 2007-04-25 Enabling of differential causality; Two examples including differential causality (pendulum, double pendulum);
- 2006-10-27 Examples: 16 / inclusive of variants a total of 52;  
[250 limit] Scalar and vectorial models of three-phase machines with and without power conserving transformation as well as two-reaction theory; Some minor enhancements; Minor upgrading of the documentation; More examples – 16 different examples as well as inclusive of variants a total of 52 Simulink Bond Graphs; Scalar and vectorial models of three-phase machines with and without power conserving transformation as well as two-reaction theory [asynchronous machine, double-fed asynchronous machine, permanently excited synchronous machine, separately excited synchronous machine without and with number of turns]; Some minor enhancements; Minor upgrading of the documentation;
- 2006-08-10 Three more examples: three-phase induction machine (ASM) with Clarke (ab) and Park (dq) coordinates, doubly-fed induction machine (DASM) with Park (dq) coordinates; each with scalar and vectorial Bond Graph.
- 2006-05-24 Extended documentation