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1-D model of ICE with Dynamic Cylinder Deactivation Control Tool

[Software] 2019.

A 1-D model of an ICE with a modular control tool for advanced valve actuation enabling dynamic cylinder deactivation in steady state mode. It allows to arbitrarily select deactivation patterns (for each cylinder) and cylinder charge nature during deactivated mode (air, residuals, vacuum). The tool also includes all inherent modifications related to results averaging, instantaneous plot viewing, AF ratio control, look-up table dependencies, convergence, sub-models revision. An in-house advanced semi-empirical friction model is used for friction losses prediction. This tool is applied on a passenger vehicle SI turbocharged engine.

Vlastník

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