Bolehovský, O., Červenka, L., Tichánek, R.  
**PFI Simulation Model of Hydrogen ICE**  
[Software] 2021.

A simulation model of thermodynamics in a heavy-duty engine fueled by hydrogen. The 1-D CFD model contains port fuel injection of hydrogen into the intake manifold, spark ignition, a predictive combustion model, and boosting by the one-stage turbocharger. The combustion model was calibrated against measured data depending on the engine load and air to fuel ratio. The model correctly predicts the heat release rate of hydrogen after calibration, and it is suitable to simulate a complete engine map.

**Vlastník**

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