

汽油机油膜模型参数辨识 Parameters Identification of the Fuel Film Model for Spark Ignition Engines

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摘要: 为了提高汽油机瞬态空燃比的控制精度,油膜模型被广泛使用。回顾了油膜模型参数的传统辨识方法,提出了可加快辨识过程的解耦辨识法,实现了模型参数的解耦自动辨识。通过仿真试验,证明了解耦辨识法的有效性。最后提出了较为理想的双方程辨识方法,可定量计算得到油膜参数的值。

With the aim to improve the accuracy in transient A/F control for spark ignition engines, fuel film model was widely used. The traditional identification methods of the fuel film model were reviewed. To faster parameters identification process, a decoupling auto-identification method was presented. The result of simulation showed that the proposed method was valid. Finally, a theoretic two-equation algorithm, which could calculate the fuel film model parameters directly, was introduced.

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