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ABSTRACT: First, the geometry model and the calculation mesh of single-cylinder direct injection diesel engine are built, using ESE module of the 3D simulation software AVL FIRE v2014 [1]. Then, by setting appropriate boundary condition, initial condition and calculating step length, and selecting ...

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the spark flame initiation model under real engine conditions, AVL FIRE is applied to the calculation of premixed flame propagation in three different SI-engine configurations for a selected number of WOT operating conditions. The engines under consideration are

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