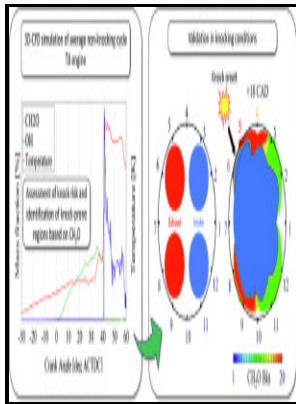


Modeling of turbulence in internal combustion engines

Society of Automotive Engineers - Modeling of Turbulence in Internal Combustion Engines



Description: -

-Modeling of turbulence in internal combustion engines

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Comparative study of turbulence models for scale

This implies that turbulence originates from instabilities in the laminar flow. Sample calculations have been made of the turbulence inside a piston-engine geometry with 8:1 compression ratio.

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In these studies, two jets face each other. By contrast, the modified turbulence model predicts a physically more plausible behavior.

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Researchers are able to apply models to data to see if they work. Typically, turbulence models are developed and validated for well-defined test cases and it is not clear whether these findings are also valid for flows in complex geometries with moving boundaries, where local flow structures might be significantly different.

Turbulent Flows in Reciprocating Internal Combustion Engines

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