

عنوان مقاله:

Sensitive Analysis of Diesel Engine NOx Emissions and Efficiency Using DELSA method

محل انتشار:

اولین کنفرانس ملی تحقیقات بنیادین در مهندسی مکانیک (سال: 1397)

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خلاصه مقاله:

This paper studied the effective and better reaction at various velocities of the diesel engine in a short period of time. Therefore, the input parameters consist of engine speed, intake air temperature, rate of air on fuel and fuel mass and the NOx emission and efficiency an immediate infusion diesel engine was tried to be utilized as a part of demonstrating. The sensitive analysis is performed to recognize the importance of the parameters for reducing of NOx and Increasing efficiency. In sensitive analysis Distributed Evaluation of Local Sensitivity Analysis (DELSA) method are all used. The obtained results reveal that air/fuel rate more influential parameter in both NOx emission and engine efficiency. Moreover, DELSA method shows nonlinearity effect or interactions among the parameters

کلمات کلیدی:

.Diesel Engine, NOx emission, Sensitive Analysis, DELSA method

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