

Abstract Details

Title: A Review on CFD Simulation of Pollutants Inside a Car

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Abstract: Now a day's peoples spend more than one hour in a car. A lot of studies have been done to study the outdoor pollution due to vehicle exhaust gas emission. Since last decade researchers are very much curious to study the quality of air inside a car. According to some study pollutants level inside a car is much higher than the pollutant level in the ambient air at road side. This research paper shows how to simulate the pollutants inside a car. This can be done by finding out the pollutants present inside the car with their concentration. Then flow parameter of pollutants will be measured at different places inside car mainly at inlet of pollutants and at rear seats. Car engine conditions will be played an important role in emission of pollutants so parameters related to car engine will also be measured. With this simulation we can conclude that inside pollutants affects the driver and passengers up to which extent and which passenger is much affected and then we can take some action to overcome these pollutants.

Keywords: CFD, Pollutants.