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Efficiency Analysis of Hydrogen Fuel Engines

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Abstract: Extensive research work was reported in literature on production of hydrogen and design of IC engines with hydrogen as working fluid. The study has assumed greater importance with the fast depleting of conventional sources of energy. Hence a renewable source of energy like the energy released from hydrogen is tried by researches. Using hydrogen as fuel in IC engines has the advantage of pollution free exhaust emission and improved efficiency. However the cost of production of hydrogen poses a serious setback for above approach. The alterations to be done in the engine design, is another challenge facing the researches. The combustion analysis of hydrogen needs a thorough understanding. An attempt is made in this paper, to clearly identify the issues and challenges facing hydrogen fuels engines and to understand the research finding as on date in addressing above issues and challenges. The various findings of the researchers are reviewed. The major contriubations fo the present work lies, in reviewing the latest research papers published in international journals on hydrogen fueled engines and to fix the issues and challenges there in , to identify possible methods to address the issues.