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Analysis of working pressure on the performance of IC Engines

P. Vishnu Vardhan

Abstract : Extensive literature survey revealed that, lot of work is being done on effect of maximum working pressure of the engine on the performance characteristics. It has been observed that the variation of compression ratio (CR) has a pronounced effect on the SFC and performance of the engine. The exhaust emission also gets effected by varying the CR or working pressure. The heat transfer parameters and the thermal balance of the engine also get altered with alteration of working pressure. An attempt is made in this paper to make an exhaustive survey of the literature available as on date on above subject, with a view to identify the issues and challenges and the techniques used to address the same. The major contribution of present work lies in summerising the latest research in this area ,and to identify the issues and challenges involved. The review study will have lot of scope for further research ,in improving the performance of engine by arriving at optimum CR.