Abstract

The incipient faults in IC engine can be detected by conventional methods using various sensors. In this proposed paper the use of audio signal from engine is employed for fault detection. The use of audio signal for fault diagnosis in Internal Combustion Engine has grown significantly due to advances in the progress of digital signal processing algorithms and Artificial Neural Network. A fault diagnosis in internal combustion engine using digital signal processing & Artificial Neural Network uses MATLAB is proposed. The present paper discusses a methodology where a set of parameters is used to checks the status of an engine as either healthy or faulty This method based on parameter estimation, also signal modal approaches are developed to generate several symptoms indicating difference between normal and faulty status.
Fault Identification in IC Engine using DSP and ANN

References

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Index Terms

Computer Science
Applied Sciences
Keywords
Internal Combustion Engine  Digital Signal Processing  Artificial Neural Network
Parameter Estimation