## **Failure Analysis of the Gasoline Engines Injection System**

Authors : Jozef Jurcik, Miroslav Gutten, Milan Sebok, Daniel Korenciak, Jerzy Roj

**Abstract :** The paper presents the research results of electronic fuel injection system, which can be used for diagnostics of automotive systems. In the paper is described the construction and operation of a typical fuel injection system and analyzed its electronic part. It has also been proposed method for the detection of the injector malfunction, based on the analysis of differential current or voltage characteristics. In order to detect the fault state, it is needed to use self-learning process, by the use of an appropriate self-learning algorithm.

Keywords : electronic fuel injector, diagnostics, measurement, testing device

**Conference Title :** ICISEEE 2015 : International Conference on Information Science, Electronics and Electrical Engineering **Conference Location :** Istanbul, Türkiye

Conference Dates : February 16-17, 2015