

RESEARCH CONCERNING THE OPTIMIZATION OF THE LAMBDA SENSOR FUNCTIONING USED IN THE AUTOMOTIVE ENGINEERING

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Abstract

Together with the catalyser usage, the regulation of the fuel-air mixture with the help of the Lambda sensor represents at the present the most efficient method of controlling the gas emissions of a fuel engine. The active part of the sensor is made up of a ceramic material based on $ZrO_2 - Y_2O_3$. Thus, the present work brings a series of supplementary explanations concerning the influence of the ceramic material microstructure used in the Lambda sensor design over the conductivity and consequently over its operation mode.

Keywords

brake, disk, drum, coherence