



REALTIME ODORS TRANSDUCER

Abstract

Problem Statement

In this we will explain about the realtime odors transducer research. This research perform at USK in Indonesia. This odors Transducer would be produce as a new part of electronics component. This new part could be apply for a new mobile device or as stand alone odors transducer device.

Methods

The methos that use in this research is by design a new chemical material that can absord the odor around it. This odor would be some materials such as cloth, plastic, rubber or paper. Using the chemistry theory to made a polymer, then we designed the new polymer material that we call polymer gel disk. This new polymer then design for application that have a size in diameter about 2 cm and thickness of 1 mm.

Results

In order to know about the characteristics of this new part then we do some experiment in laboratorium. We then accomplished the transducer design by connected 6 wire of USB port to the thin disk. Right now we have 4 input data to processor system. This 4 bit data then combine to get 16 bit digital data of odor that "smell" by the transducer. This data then process by the computer program for real life applicatios.

Conclusions

From this research we could make some conclusion, that the odors in our everyday like the odors of the foods or the smell of the fragrances could be reccorded such as video or song.