
Sensors And Transducers By D Patranabis Pdf 28

Pranab Biswas D 28 The sensor interface and transducer interface were designed to work well with all Wafer Scale Integration (WSI) microsensor technologies. A low-cost sensor called Super Semiconductor KG Series was used in the study. It was the first WSI semiconductor-based microsensor system developed and marketed by Sumitomo Electric Technology, Ltd. [31]. The sensor contains three main parts:

An integrated circuit (IC) chip, a glass plate, and a flex. These parts will be described in the following sections. The IC chip contains the readout circuit and the signal processing circuits. It is attached to the glass plate using micro-spring wires.

Sensing and Processing At the chip interface, the chip is cooled by coolant supplied by a small fan. The temperature of the chip is kept uniform by circulating coolant through the chip. The chip has a three-axis motion detection and measuring circuit, an auto reset circuit, and an error correction circuit. All of these circuits are obtained from Microchip Technology Co., Ltd. The stainless steel springs are attached to the chip using silver epoxy. The springs hold the chip and the flexible circuit to the glass plate with a set preload. The preload force is provided by the springs. After the springs are soldered on the conductive pads on the chip, they are

heated for 5 minutes at 250 °C to remove the debris that might obstruct the wires. The plate and the sensor are then connected to a custom fabricated cable that allows the VCI2 interface to provide power to the chip and read the signal. The glass plate is a preselected type of pyroelectric material, such as Cz and LiNbO₃. A backside-illuminated chip is attached to the glass plate using micro-springs. The plate is then cut to the desired size (1 ½ in. × 2 ½ in., or 3.38 cm × 6.35 cm). The sensing and processing circuits in the IC chip is shown in

Fig. 6. They process both analog and digital signals from the sensor. The R2 inverter circuit provides two AC signals from two pairs of opposite electrodes, and the AC signals are amplified using the transimpedance amplifier (TIA) circuit. The 3e33713323

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