

PRINCIPLES OF MEASUREMENT WITH HALL SENSOR AND SENSORS RELIABILITY

BY

**CORNELIA VARGA, CRISTINA SCHREINER, MARIA URSAN and
GEORGE-ANDREI URSAN**

Abstract. Sensors are employed in a wide variety of applications including automotive, medical, power electronics, computer, transducers, material characterization and power meters. Hall Effect has been used for various types of sensing devices such as a position sensor, a current sensor, an angle sensor, a speed sensor. This paper presents direct and indirect measurements with Hall sensor and several methods to action Hall sensor for measuring the distance, angle or way.

Key words: Hall Effect; Hall sensor; output voltage.