

# COMPUTER AIDED MAGNETIC MEASUREMENTS OF SOFT MAGNETIC MATERIALS

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**Abstract:** *The paper presents some experiments that have been carried out on toroidal cores on which two coils have been wound. In the primary coil a current of the desired waveform was introduced, and at the terminals of secondary coil another voltage proportional to the time derivative of the magnetic flux density was acquired. At the terminals of a resistance inserted in primary circuit, is acquired a voltage, proportional to the supply current and respectively with the magnetic field strength. From acquired voltages it was possible, after a certain arithmetic calculus, to draw the hysteresis cycle.*

**Key words:** *solid core, sheet core, primary coil, secondary coil, hysteresis.*