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GRÜTZMACHER BRIDGE AS OPERATION PRINCIPLE FOR A DIGITAL IMPEDANCE METER

BY

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Abstract. In this paper, some of the nowadays methods for digital impedance measurements and a possibility of converting an analog bridge to a digital one are presented. The paper describes a procedure of measuring impedances based on an old but efficient principle asserted for the first time by Grützmacher in 1934. For measuring the unknown impedance using the proposed method, a digital potentiometer, a data acquisition (DAQ) module and a software package for driving the whole system are needed.

Keywords: impedance, digital measurement, data acquisition.