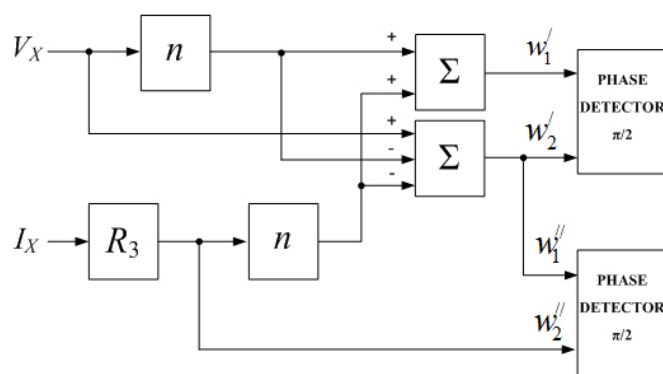


17VS065 Double quasi - balanced meter for measurement of inductor quality factor

Adam Cichy²⁴, Artur Skórkowski²⁴, Sebastian Barwinek²⁴

A principle of operation and an implementation of non - bridge quasi - balanced circuit designed to measure quality factor of real inductors has been presented in this paper. The circuit is based on well-known bridge circuit. A structural diagram describing the processing of signals has been presented. An implementation as a virtual instrument has been presented as well. Keywords: quasi-balanced circuits, quality factor, virtual instruments



Block diagram of a quasi - balanced circuit with dual quasi - balancing

17VS068 Automated quasi-balancing in virtual quasi-balanced circuit designed to capacitance measurements

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A basic purpose of this research was to verify a possibility of an automatic balancing in the virtual realization of the quasi-balanced circuit for the capacitance measurement. Diagrams of a virtual quasi-balanced instrument, with different phase detectors, have been presented in this paper. Results of testing of fundamental modules of virtual realization measurement circuit have been presented as well. Keywords: quasi-balanced circuits, capacitance measuring, virtual instruments

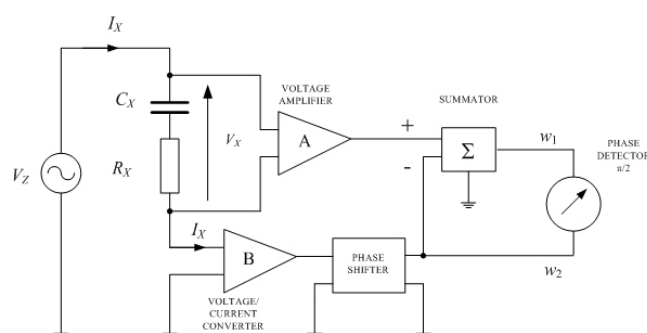


Diagram of the quasi-balanced circuit for capacitance measurements