

The invention relates to the fields of measuring equipment and radio electronics and can be used for the reproduction of virtual impedances with independent regulation of the modulus and phase.

The impedance converter comprises two terminals (2, 8), a first operational amplifier (1) and a second operational amplifier (4) with two inputs and one output each, a code-controlled variable resistor (3), connected with the poles between the noninverting input of the first operational amplifier (1) and the output of the second operational amplifier (4), a fixed resistor (5), connected with the poles between the noninverting input of the second operational amplifier (4) and the common wire, a differential amplifier (6) with the unit amplification coefficient, having its inputs connected, respectively, to the output and noninverting input of the second operational amplifier (4), a code-controlled phase shifter (7) with the possibility of phase regulation in the value range of $0^\circ \dots 360^\circ$ and with the unit amplification coefficient, having its input connected to the output of the differential amplifier (6) and its output – to the noninverting input of the second operational amplifier (4). The first operational amplifier (1) has its inverting input connected to its output and to the inverting input of the second operational amplifier (4), and the terminals (2, 8) are connected, respectively, to the noninverting input of the first operational amplifier (1) and to the common wire.

Claims: 1

Fig.: 1

