

The invention relates to the electrical measuring technique and radio electronics and may be used for high-precision reproduction of floating impedances controlled by voltage of any character, with the possibility of independent control of the module and phase of the reproduced impedance.

The impedance converter contains two contacts, a programmable amplifier, the output of which is connected to the input of a programmable phase shifter, having its output connected to the input of a voltage-to-current converter, the output of which is connected to the first contact. The impedance converter additionally contains a second voltage-to-current converter, having its input connected to the output of the phase shifter and its output – to the second contact, as well as a differential amplifier, having its inputs connected to said contacts and its output to the input of the programmable amplifier.

At the same time, the voltage-to-current converters provide conversion factors equal in value and opposite in sign, and the differential amplifier possesses considerably great input impedances than the impedances of the external circuit connected to the first and second contacts.

The result of the invention consists in increasing the reproduction accuracy of floating simulated impedances with independent control of the module and phase of the reproduced impedance.

Claims: 2

Fig.: 1