

The invention relates to the electrical measuring technique and radio electronics and may be used for high-precision reproduction of voltage-controllable admittances of any character, with the possibility of independent control of the active and reactive components.

Summary of the invention consists in that the admittance converter contains a clip connected to the input of an amplifier with high input impedance, a programmable amplifier, having its input connected to the output of the above-mentioned amplifier and its output to the input of the phase shifter, the output of which is connected to the input of the voltage-to-current converter, having its output connected to the input of the amplifier with high input impedance, and the second clip is simultaneously connected to the common contacts of the above-mentioned amplifiers, phase shifter and converter. The admittance converter additionally contains a second programmable amplifier, having its input connected to the output of the amplifier with high input impedance and the common point to the common contacts, and the voltage-to-current converter is equipped with the second differential input, connected to the output of the second programmable amplifier.

The programmable amplifiers possess controllable amplification factors in the field of positive and negative values, and the phase shifter introduces a phase shift equal to 90° .

The result of the invention consists in providing the reproduction of voltage-controllable simulated admittances represented in Cartesian coordinates with independent control of the active and reactive components.

Claims: 2

Fig.: 1