

The invention relates to the field of electric and electronic measurements and can be used for high-precision measurement of admittance components.

The method consists in the formation of a measuring circuit from the measured object, output terminals of an admittance converter with separate regulation of active and reactive components of the reproduced admittance and a signal generator connected in parallel, formation of a non-equilibrium signal and a reference signal, respectively, from the total current passing through the measured object and the output circuit of the converter, and from the current passing through the active component of the admittance reproduced by the converter with the conservation of phase of these currents, control of the phase shift between the non-equilibrium signal and the reference signal, equilibration of the measuring circuit by regulating the active and reactive components of the admittance reproduced by the converter concomitantly, up to the attainment of the phase shifts, respectively, of 90° (270°) and 0° (180°) between the non-equilibrium signal and the reference signal, and determination of components of the measured admittance from their known dependence on the components of the admittance reproduced by the converter.

Claims: 1

Fig.: 2