

The invention relates to the field of measuring equipment and radio electronics and can be used for high-accuracy reproduction of negative resistances adjustable with regulation in a wide value range.

The negative resistance converter comprises an operational amplifier (5) with two inputs and one output, having its inverting input connected to the common wire, a fixed resistor (3), having one pole connected to the output of the amplifier (5), a switch (10), connected with the movable contact to the output of the amplifier (5), a variable resistor (7), having one pole connected to the common wire, a block (9) of n resistors, connected with one pole to the fixed contacts of the switch (10) and with the other poles together – to the other pole of the variable resistor (7), and two terminals (2) and (8), one being connected to the other pole of the fixed resistor (3) and the second – to the common wire. The converter further comprises three operational amplifiers (1), (4) and (6), each with two inputs and one output. The amplifiers (1) and (6) are each connected with their inverting inputs to their outputs and with their non-inverting inputs – to the terminal (2) and to the other pole of the variable resistor (7), respectively. The inverting and non-inverting inputs of the amplifier (4) are connected to the outputs of the amplifiers (1) and (6), respectively, and its output is connected to the non-inverting input of the amplifier (5).

Claims: 1

Fig.: 1

