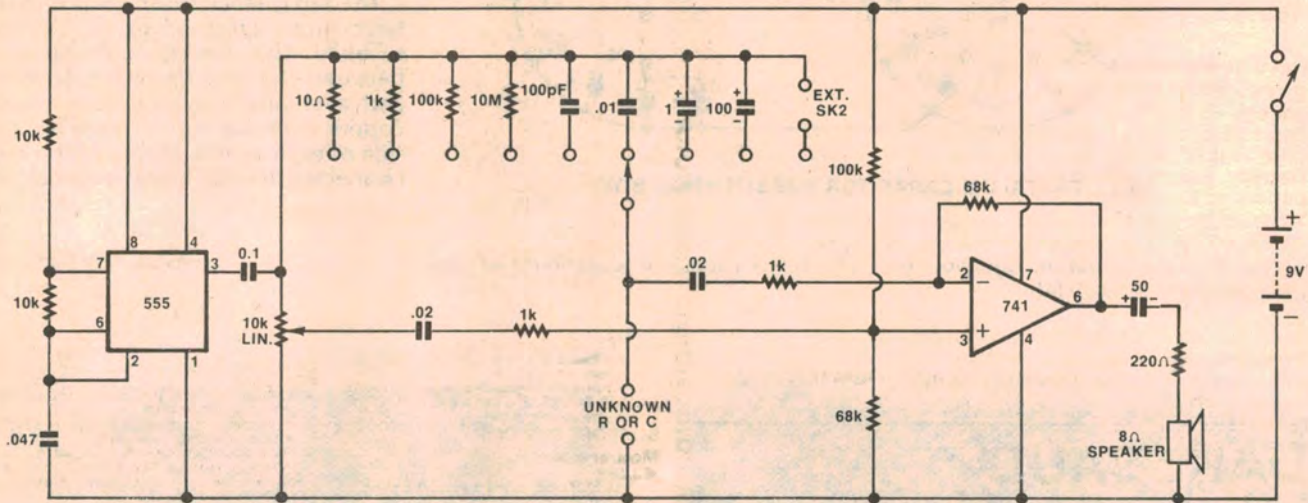


Bridge measures unknown resistance and capacitance



This bridge may be used to determine, with reasonable accuracy, the value of resistors and capacitors over a very wide range. The bridge is formed by two arms of the 10k potentiometer, the unknown and the reference value as chosen by the switch. The 555 serves as an oscillator in the audio range and

the 10k potentiometer is adjusted for a minimum output from the headphones or loudspeaker, as determined by the 741 difference amplifier.

The 10k potentiometer should be calibrated by determining significant points obtained by using resistors or

capacitors of known value and accuracy. The external reference socket may be used as a means for testing coils or for different ranges other than those which the switch offers.

(By Mr D. Brighton, Franklin Road, Huonville, Tasmania 7109.)