

INDEX

Electrical resistance

- ELI 020 Ohm's law
- ELI 021 Application of Ohm's law
- ELI 022 Measuring resistance with an ohmmeter
- ELI 023 Resistance of wires
- ELI 025 Iron wire is not an ohmic resistor
- ELI 026 Iron wire is a PTC conductor
- ELI 027 A light bulb is a PTC conductor
- ELI 028 Ohmic resistors in series circuits
- ELI 029 Ohmic resistors in parallel circuits
- ELI 030 Resistors in mixed circuits
- ELI 031 Voltage divider
- ELI 032 Variable resistor
- ELI 033 Model of a potentiometer
- ELI 036 Regulating lighting using a potentiometer
- ELI 037 Model of a fader
- ELI 038 Potentiometer not under load
- ELI 039 Potentiometer under load
- ELI 040 Light bulbs in parallel circuits (loads)
- ELI 041 Light bulbs in series circuits
- ELI 042 Internal resistance of a voltmeter
- ELI 043 Internal resistance of an ammeter
- ELI 044 Internal resistance of a voltage source
- ELI 045 Expanding the measuring range of a voltmeter
- ELI 046 Expanding the measuring range of an ammeter
- ELI 047 Wheatstone bridge circuit

Thermal effects of electrical current - heat energy from electrical energy

- ELI 048 Converting electrical energy into heat energy
- ELI 049 Heat build-up with various thicknesses of wires
- ELI 050 Short circuits are a fire hazard
- ELI 051 Fuses prevent fire hazards
- ELI 052 The incandescent effect of a filament

Work and power

- ELI 059 Work and power of electrical current