

2 Cheapie Light Meter

□ The beauty of this Cheapie Light Meter is that it is almost perfectly linear over a wide range of light inputs. It provides you with the basic operation of a camera light meter and can be made to read directly in f-stops and shutter speed. Phototransistor Q1 senses the light level

and passes that on to the 741 op amp where the small voltage is amplified. Meter M1 is any instrument you currently have around the house, or any inexpensive meter you can buy. R1 provides a zero adjustment for the meter.

PARTS LIST FOR CHEAPIE LIGHT METER

B1—1.5-VDC dry cell

M1—See text

IC1—741 op amp

Q1—FPT100 phototransistor

R1—10,000-ohm, linear-taper potentiometer

R2—10,000-ohm, 1/2-watt resistor

R3—30,000-ohm, 1/2-watt resistor

R4—100,000-ohm, 1/2-watt resistor

R5—2,000-ohm, 1/2-watt resistor

