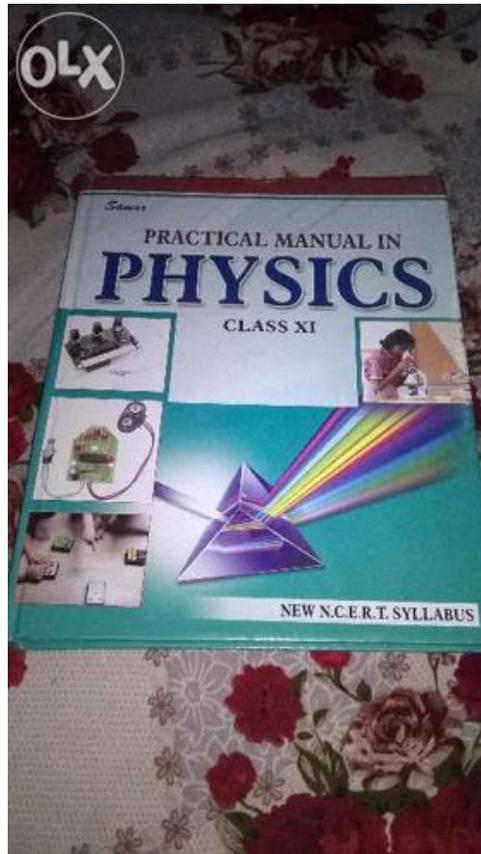

Physics Practical Book For Class 11 Download



DOWNLOAD: <https://byltly.com/2ilivq>

Free Download



The problem (42) is given in the paper. Experiment 1: Shock-wave radiation experiment
===== **Problem 1:** A constant voltage source of 1 volt is connected across a capacitor of $200 \mu\text{F}$ which is discharged by a 1.5 A current until it is fully discharged. After a while, the capacitor is connected to a resistance of 100Ω . What is the time taken for the capacitor to charge to 0.9 volts? (2.5 seconds) **Solution:** Let V_1 be the initial voltage of the capacitor, V_2 be the final voltage of the capacitor. Thus,

we can write $V_1 = 1 \cdot 200 \mu F = 200 \mu V$ $V_2 = 0.9 \cdot 200 \mu F = 180 \mu V$

The final voltage of the capacitor is greater than the initial voltage, because the capacitor was discharged and recharged again. Hence, $V_2 - V_1 = 180 - 200 \mu V = -80 \mu V$ $(80 \mu V \leq V_2 - V_1 \leq 0)$

$$t = \frac{V_2 - V_1}{I} = \frac{180 - 200 \mu V}{1.5 A} = 12.75 \text{ seconds}$$

Experiment 2: Current through a resistor experiment ===== **Problem 2:** A 150W bulb of resistance 1.5 Ω is connected to a 200 μF capacitor, a 1.5A current is passed through the bulb and a 4.5V battery is connected to the circuit. How long will the bulb light? (8 seconds) **Solution:** First, let us look at the equivalent circuit. The resistor and the capacitor are in parallel and in series. Thus, $V_0 = R \cdot I \rightarrow V_0 = 1.5 \cdot 1.5 = 2.25 V$ $V_R = \frac{V_0}{1 - R} = 1.5 \cdot \frac{2.25}{82157476af}$

Related links:

- [darulkitab islam ansiklopedisi v3 116](#)
- [Sacred Games 2018 S01 Hindi 720p NetFlix X264 DDP 5.1 - XRG Setup Free xbox 360 emulator 3.2.6 download for windows 7 69](#)