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Class 12 Physics

Important Derivations & Formulas

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Electrostatics & Current

- Electric field due to a point charge and a dipole.
- Gauss's law and its applications.
- Ohm's law and combination of resistances.
- Wheatstone bridge and potentiometer principle.

Magnetism & EMI

- Biot-Savart law and Ampere's circuital law.
- Force on a current-carrying conductor in a magnetic field.
- Faraday's laws of electromagnetic induction.
- Self and mutual inductance; AC generator principle.

Optics & Modern Physics

- Lens maker's formula and mirror formula.
- Young's double-slit experiment and interference.
- Photoelectric effect and Einstein's equation.
- Bohr's model and de Broglie wavelength.

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