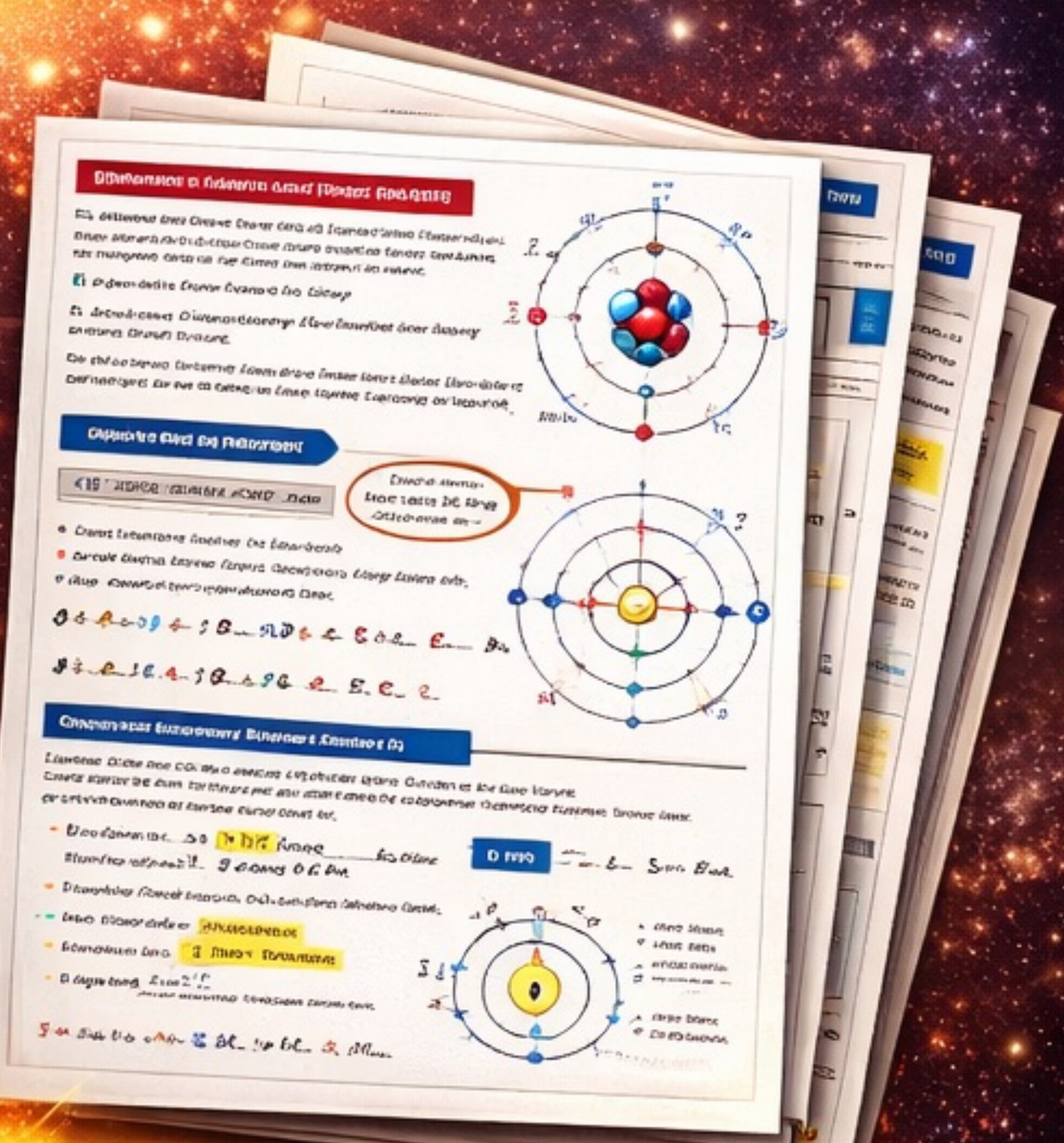
ATOMIC STRUCTURE

JEE QUICK REVISION NOTES

- Key Concepts & Formulas
- Bohr, Thomson & Rutherford Models
- Quantum Numbers Explained
- Short Tricks for Exams



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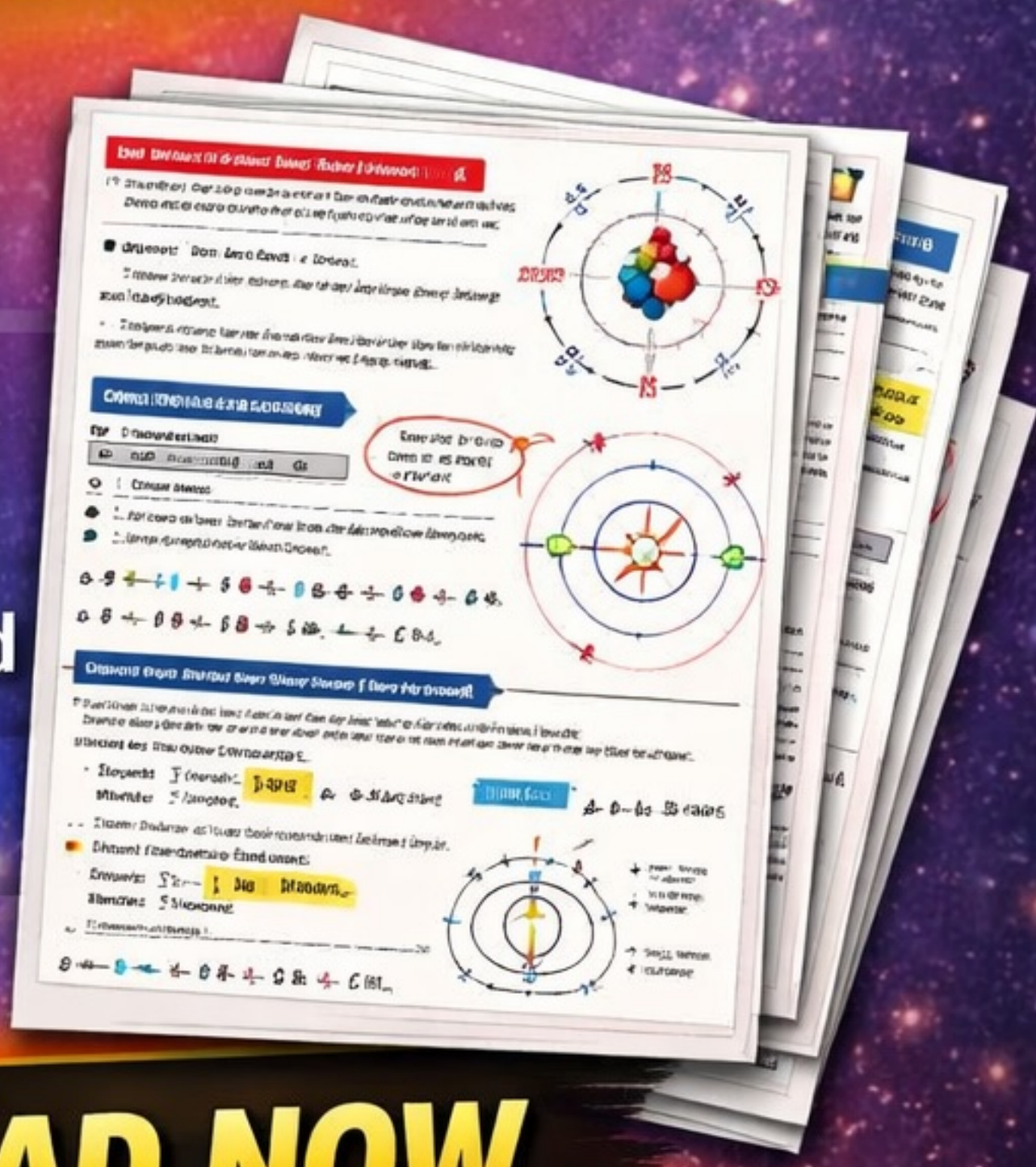

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ATOMIC STRUCTURE
FORMULA SHEET

Quick Revision for JEE / NEET / Class 11

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ATOMIC STRUCTURE FOMULA SHEET

- Charge of electron

$$e = -1.602 \times 10^{-19}\text{C}$$

- Specific charge of electron

$$\frac{e}{m} = 1.758 \times 10^{11}\text{C/kg} = 1.758 \times 10^{8}\text{C/g}$$

- Mass of electron,

$$m = 9.1 \times 10^{-31}\text{ kg} = 9.1 \times 10^{-28}\text{ g}$$

- Relative charge of $e^- = -1$
$= -4.8 \times 10^{-10}$ esu → electrostatic units

- Charge of oil drop,

$$q = n \cdot e$$

- Mass of ' H ' atom = 1.008 amu

$$= 1.673 \times 10^{-24}\text{ g}$$

- Mass of ' H ' = 1837 × Mass of electron

- Deflection of e^- in electric field.

$$y = \frac{eE}{2mv^2}x^2$$

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