

## **9 Series Breakdown** (for physics & engineering students)

### **9A Classical Physics**

Motion

The Laws of Motion

Newton's Laws

Work & Energy

Energy & Conservation of Energy

Momentum & Collisions

Rotation

### **9B Classical Physics**

Temperature & Kinetic Theory

First Law of Thermodynamics

Entropy & the Second Law of Thermodynamics

Oscillation

Waves

Electromagnetic Waves

Light

### **9C Classical Physics**

Electric Forces & Electric Fields

Electric Potential

Circuits

Magnetism

Electromagnetic Induction and Inductance

Maxwell's Equations

### **9D Modern Physics**

Special relativity

Quantum Mechanics

Atomic Physics

Special Topics