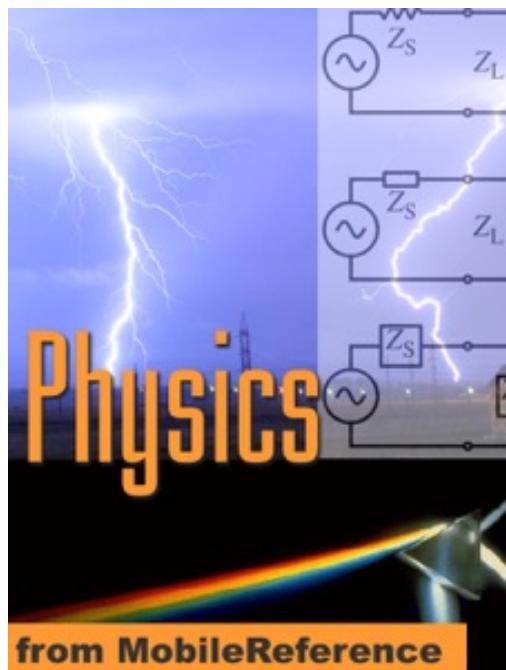


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Setup and Navigation
About

Laws of Science

Fluid mechanics Conservation laws Gas laws Einstein's laws Newton's laws Electromagnetic laws Thermodynamic laws Quantum laws

Classical Mechanics

Speed Velocity Acceleration Forces; Newton's Second Law Energy Limits of Validity Rigid Body , Rigid Body Dynamics Kinematics Fundamental equations Relative motion Equation of Motion Coordinate systems Rotational Motion Angular Speed (Frequency) Angular Velocity Angular Acceleration Kepler's laws of Planetary Motion Mass Force , Centripetal Force Impulse Newton's Laws of Motion Statically Determinate Momentum Angular Momentum Torque Mechanical Work Power Energy Forms of energy Potential Energy Kinetic Energy Gravitation Law of Universal Gravitation Standard Gravity

Heat, Gas, and Thermodynamics

Conservation Law Conservation of energy Conservation of linear momentum Conservation of angular momentum Conservation of electric charge Heat Temperature Density Liquid Pressure Gas Gas Laws Ideal Gas Law Boyle's Law Charles's Law Gay-Lussac's law Avogadro's Law Combined Gas Law Thermodynamics Thermodynamic Temperature Celsius Fahrenheit Helmholtz Free Energy Thermodynamic Processes Isobaric Process Isochoric Process Isothermal Process Adiabatic Process Thermodynamic Cycle Heat Engine Laws of Thermodynamics Zeroth Law First Law Third Law Combined Law Thermodynamic System Thermodynamic Equilibrium

Optics

Physical optics Aberrations Coherence Diffraction Dispersion Interference Fermat's principle Optical resolution Angular resolution Polarization Polarization angle Reflection Law of Reflection Lambert's cosine law Total internal reflection Refraction Fresnel Equations Snell's law (law of refraction) Wave
Geometric optics Cardinal point Ray (optics) Lenses Focal Length Mirrors Prisms

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