



# Applied Physics for Airplane Mechanics

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CONTENTS Applied Mechanics Force Force of Gravity Laws of Motion Work Efficiency Pulleys Levers Gears Friction Heat General Definition of Heat Measurement of Heat Units of Heat Mechanical Equivalent of Heat Heat Conductivity Transfer of Heat Conditions of Heat Transfer Changes of State Elements of Fluids General Liquids Pressure Production and Transmission in Liquids Gases Pressure Production and Transmission in Gases Changes of State Atmosphere Elementary Aerodynamics General Airfoils and Airfoil Sections Aerodynamic Principle of Airfoil Wings Control Surfaces Propeller Parasite Resistance Stability Principles of Electricity General Electrical Circuit Hydraulic Analogy Effects of Electric Current Electrical Symbols and Circuit Conventions Ohm's Law Electrical Power Sources of Current for Aircraft Purposes Series and Parallel Battery Circuits Conductors and Insulators Condensers Elements of Magnetism and Magnetic Induction Nature of Magnetism Permanent Magnets Magnetic Circuit Electromagnets Relation between Current and Field Intensity Electromagnetic Induction This book was originally published by the War Department in 1943.

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