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APPLIED PHYSICS FOR AIRPLANE MECHANICS

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SECTION I

APPLIED MECHANICS

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Force	1
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1. **Force.**—*a. General.*—Force is the action of one body on another tending to change the state of motion of the body acted upon. Force may tend to move a body at rest. It may tend to increase or decrease the motion of a moving body or change its direction of motion. The application of force also may result in one or more of the following states of stress in the body acted upon:

(1) Tension (tendency to make longer or stretch), as in the control cables on an airplane.

(2) Pressure or compression (tendency to shorten or narrow), as on the under surfaces of a wing during a banking maneuver.

(3) Shear (tendency to cut a body by the action of two parallel forces), as in a shaft under a load (example, an automobile axle) or the shearing of a rivet.

b. Measurement.—A force can be measured in three ways: by the weight it can support, by its ability to stretch an elastic body (such as

Applied Physics For Airplane Mechanics

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Applied Physics for Airplane Mechanics US Department of War, U.S. Department of War, 2005-01 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 **Applied Physics for Airplane Mechanics**, 1943 **Applied Physics for Airplane Mechanics**, 1943 *Syllabus for Engineering Basic Technical Training, First Year, Course No. 60,000* United States. National Guard Bureau, 1950 Technical Manual United States. War Department, **Manual NGB**. United States. National Guard Bureau, 1950 Selected Government Aeronautical and Related Publications (other Than Those Published by the Civil Aeronautics Administration), 1948 *Applied Physics for Airplane Mechanics* Estados Unidos War Department, 1943 **Career Opportunities in Aerospace Technology**, 1987 **Field Manuals** United States. War Department, 1948 *Determination of the Mechanical Properties of Aircraft-structural Materials at Very High Temperatures After Rapid Heating* James Benson Preston, William P. Roe, J. Robert Kattus, 1958 College Majors Ellen Lederman, 2015-03-19 This is an easy to use comprehensive reference tool for students parents teachers counselors and librarians to more than 400 majors offered in U S colleges and universities Each entry gives a description of the major levels offered associate bachelor's master's doctoral examples of typical courses related and complementary majors needed abilities and aptitude to pursue the major and career possibilities The book is intended to serve as a starting point in the process of choosing a college major It introduces readers to the possibilities and can spark an interest in several majors that can then be explored in depth The appendices list fields of study by discipline alternate names for majors and cross references of occupations to majors *National Guard Bureau Manual* United States. National Guard Bureau, 1950 **Prediction of Creep Effects in Aircraft Structures** General Dynamics Corporation. Convair Division, 1962 Confidential Documents United States. Army Air Forces, 1944 **Applied Mechanics Reviews**, 1974 **Modern Manufacturing Processes for Aircraft Materials** Selim Gurgun, Catalin I. Pruncu, 2023-11-03 Approx 530 pages Provides detailed explanation of modern manufacturing processes used in the aircraft industry Covers additive manufacturing both for

polymeric and metallic materials electrical discharge machining laser welding electron beam welding and micro machining
Explains manufacturing operations for not only metallic materials but also polymers and composites **The 1980 Guide to
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