



## Basic Machines and How They Work

By Naval Education And Training Program

Dover Publications. Paperback. Book Condition: New. Paperback. 128 pages. Dimensions: 9.0in. x 6.0in. x 0.3in. Thoroughly covering basic theory, ranging from the lever and inclined plane up through internal combustion engines and power trains, this revised edition of an extremely clear Navy training manual leaves nothing to be desired in its presentation. Nothing more than the most elementary mathematics is required to follow it. Beginning with the simplest of machines the lever the text proceeds with discussions of the block and tackle (pulleys and hoists), wheel and axle, the inclined plane and the wedge, the screw, and different types of gears (simple, spur, bevel, herringbone, spiral, worm, etc. ). A chapter on the concept of work discusses the measurement of work, friction, and efficiency; this is followed by investigations of power, force and pressure, explaining the uses of scales, balances, gauges, and barometers. The fundamentals of hydrostatic and hydraulic machines (such as the hydraulic braking system and the hydraulic press) are discussed in detail. The remaining chapters cover machine elements (bearings and springs), basic mechanisms (gear differential, couplings, cams, clutches), the internal combustion engine and power trains (including explanations of various transmission systems synchromesh, auxiliary, etc. ) Every concept is clearly defined...



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