



Elementary Aeronautics; Or, the Science and Practice of Aerial Machines

By Albert Peter Thurston

Not Avail, United States, 2012. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book ***** Print on Demand *****.This historic book may have numerous typos and missing text. Purchasers can download a free scanned copy of the original book (without typos) from the publisher. Not indexed. Not illustrated. 1911 Excerpt: .the same pitch, are not similar. Propellers are similar when the pitch angle is the same. If the pitch angle is constant, then the pitch varies as the diameter, i.e., the velocity given to the column of air varies as the diameter, therefore, if we double the diameter of the screw, and take equal areas of the column in each case, since the velocity is doubled, double the amount of air will be acted upon, and each particle will receive double the momentum, therefore, the thrust will be four times as great. Similarly, if the diameter is trebled, the thrust will be nine times as great, i.e., the thrust per unit area of the pitch squared, i.e., to Fig. 69.--Diagram illustrating the principles of the screw propeller. column is proportional to the diameter squared. Gathering our results, we can write: --Thrust $\propto N^2 D^2 \times D^2$...



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