



Aerial Propeller (Classic Reprint) (Paperback)

By American School Of Correspondence

Forgotten Books, 2017. Paperback. Condition: New. Language: English . Brand New Book ***** Print on Demand *****. Excerpt from Aerial Propeller Peripheral Speed. The limiting factor in the propeller is its peripheral rather than its rotational speed, since it is upon this that the centrifugal stresses, which are by far the most severe of all involved, depend. The propellers of practically all aeroplanes built so far run at peripheral speeds ranging from to feet per minute, with occasional instances of speeds as high as feet per minute, the rotational speeds being so adjusted to the diameters of the propellers as to produce little variation outside of the range given. At the higher of the speeds mentioned, nearly 570 miles per hour, centrifugal force is so great as to test to its utmost the quality of the finest structural material obtainable. That it is better to gain permissible peripheral speeds by the use of large diameter propellers at low-rotational speeds, rather than with small propellers at high-rotational speeds, becomes very evident with a little study. Take, for example, the case of -a portion of a propeller surface, 1 foot long and 1 foot wide, traveling edgewise round a 30-foot circumference,...



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