



The Problem of Flight; A Text-Book of Aerial Engineering

By Herbert Chatley

Rarebooksclub.com, 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. 1907 Excerpt: .are so tilted that there is a minimum resistance in the direction of the resultant momentum (i.e. compounded of the vertical and forward thrust). We thus find that the flight of a bird or insect consists of two component actions on the down-stroke and two on the up-stroke. (1) Downward thrust, from which is obtained the ascensional force. (2) Forward thrust, which is combined with (1), so obtaining the aeroplane effect. (1) and (2) together constitute the down-stroke which provides the lift. (3) Eotation of wing from an inclined plane into a nearly horizontal plane. (4) Upward movement of limb. (3) and (4) together form the up-stroke, which, by drawing against the air current of the down-stroke, gives forward propulsion. In the case of a bird s flight on the up-stroke, the feathers are thought to be partially separated, so that, if there is any part...



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