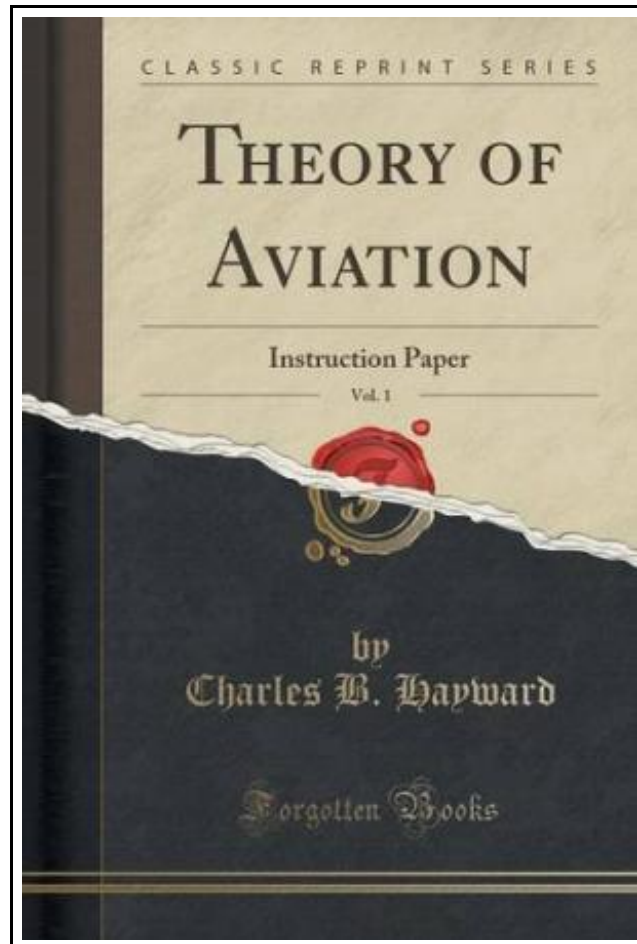


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Forgotten Books, United States, 2015. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.Excerpt from Theory of Aviation, Vol. 1: Instruction Paper As the derivation of the word indicates, aviation is employed to refer solely to the flying machine, or the heavier-than-air type, while under the general term aeronautics are included balloons, dirigibles, and similar apparatus, which depend upon the use of a lighter than-air gas to give them the necessary lifting power. Man's ideas on the subject of flight are so old as to be legendary, but going back to Icarus or before him, would not be of even academic interest in the present connection. Like that of the dirigible, the actual history of the aeroplane began about a century ago, and just as Meusnier conceived the dirigible complete, embodying in his first designs all those important principles which have since proved to be indispensable, so did Sir George Cayley achieve a startling approach in his pioneering work to what present-day success has shown to be necessary for flight. In fact, Cayley's machine represents the true prototype of the modern aeroplane, combining features of both the Wright and Bleriot forms of construction. It had a single long, narrow plane of the proportions since demonstrated to be the most effective and was designed to be drawn by two screws run by chains from a single motor, the propellers being placed forward and one on either side, while stability, elevation, and steering were to be obtained through the medium of a tail. More remarkable by far, however, was the knowledge of true principles displayed by its inventor; the proper calculation of the center of thrust and the fact that displacement takes place towards the front being known to Cayley. As...



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