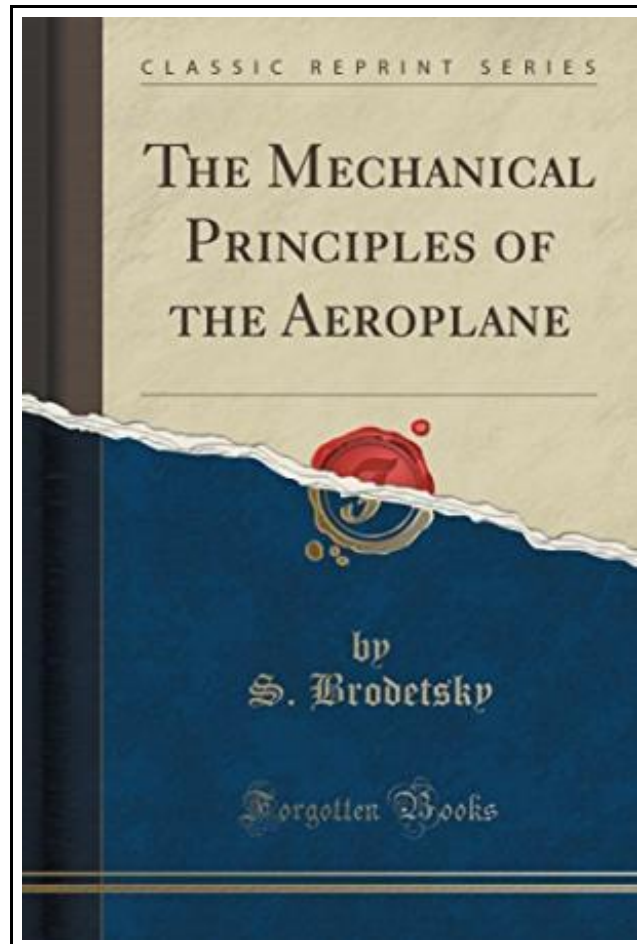


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Forgotten Books, United States, 2016. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book ***** Print on Demand *****.Excerpt from The Mechanical Principles of the Aeroplane The Dynamics of the Aeroplane is a subject now being taught at several of our universities and colleges; there can be no doubt that before long it will form part of the curricula of pass and honours schools of mathematics or engineering at most institutions of university rank. The student who approaches the subject from the mathematical point of view must get a clear grasp of the principles underlying the theory of resisted motion, three-dimensional dynamics, and the theory of fluid motion with free stream lines. Although several excellent books on aeroplanes have already been published, notably Bairstow s monumental treatise on Applied Aerodynamics - a veritable mine of information on all subjects aeronautical - there should yet be room for the present work, in which an attempt has been made to deal with the subject in such a way as to emphasise the fundamental ideas on which the theory of aeroplane motion is built. It is for this reason that so much space has been devoted to such questions as the theory of dimensions, moving axes, and the hydrodynamics of a perfect fluid in two dimensions. The a priori study of aeroplanes in Chapter VII., obviously inspired by Bryan s classical work, should help to make clear the reasons for the forms of aeroplanes now in use. As the subject is yet in its infancy, and there is great scope for further research, several investigations have been included with a view to indicating lines along which much mathematical work can be done. Many of the exercises have been set for this purpose. The notation employed in this book...



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