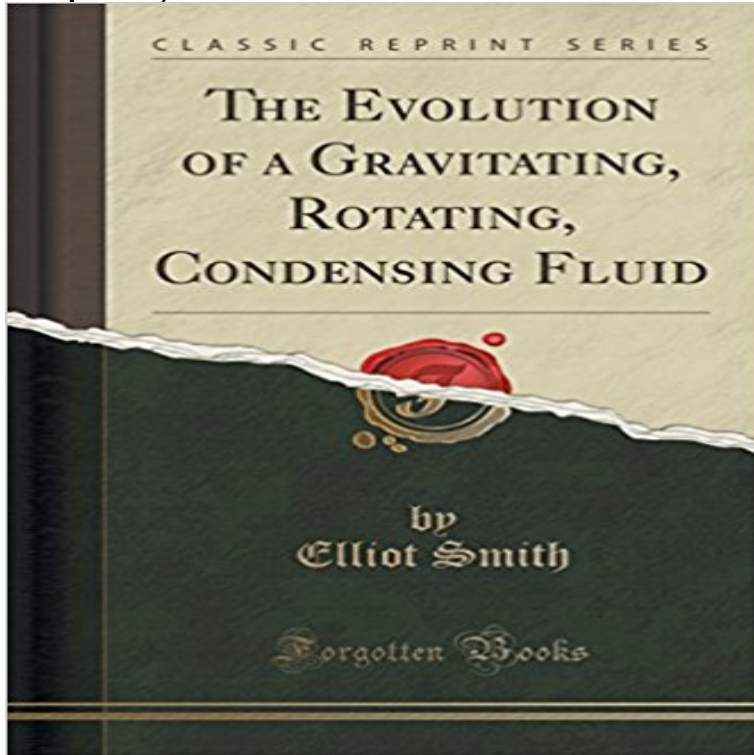


The Evolution of a Gravitating, Rotating, Condensing Fluid (Classic Reprint)



Excerpt from The Evolution of a Gravitating, Rotating, Condensing Fluid
In the science of Astronomy there are many observed phenomena for which, it is frankly admitted, there are at present no adequate explanations, while for other phenomena the physical causes assigned to explain them may legitimately be called into question. Certain of these phenomena are intimately associated with the evolution of matter in great masses as in a star or in the sun. Important mechanical changes with which observed phenomena are intimately associated must continually be taking place within a star as a result of the enormous amount of energy it is radiating into space. Various phases of the mechanical problem have been discussed by mathematicians, among whom may be mentioned Harzer, Wilsing, Samson, Wilczynski and Emden. Their conclusions differ in some important particulars and they do not adequately explain observed phenomena. A further consideration of the problem seems not only desirable but to be an imperative need of astronomy at the present time. Maclaurin, Jacobi, Thomson, Poincare and Darwin have discussed the problem of figures of equilibrium of rotating homogeneous fluids and their stabilities. They take no account of probable differences of density in masses of great size nor of differences in angular velocities as observed in the sun. Professor Moulton summarizes their work as follows: In particular, considering a series of homogeneous fluid masses of the same density but of different rates of rotation, it is shown that there is a continuous series of figures of stable equilibrium beginning with the sphere for zero rate of rotation; then, with increasing rotation, passing along a line of oblate spheroids until a certain rate of rotation is reached; then, with decreasing rate of rotation but with increasing moment of momentum, branching to a series of ellipsoids with

three unequal axes, and continuing until a certain elongation is reached; and finally, at this point, branching to a series of so-called pear-shaped figures. It has been conjectured that if it were possible to follow the pear-shaped figures sufficiently far, it would be found that they would eventually reach a point where they would separate into two distinct masses. About the Publisher Forgotten Books publishes hundreds of thousands of rare and classic books. Find more at www.forgottenbooks.com This book is a reproduction of an important historical work. Forgotten Books uses state-of-the-art technology to digitally reconstruct the work, preserving the original format whilst repairing imperfections present in the aged copy. In rare cases, an imperfection in the original, such as a blemish or missing page, may be replicated in our edition. We do, however, repair the vast majority of imperfections successfully; any imperfections that remain are intentionally left to preserve the state of such historical works.

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