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Fluidity and Plasticity (Classic Reprint)

By H P Talbot

Forgotten Books, United States, 2015. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book ***** Print on Demand *****.Excerpt from Fluidity and Plasticity Our knowledge of the flow of electrical energy long ago developed into the science of Electricity but our knowledge of the flow of matter has even yet not developed into a coordinate science. In this respect the outcome of the labors of the hydrodynamicians has been disappointing. The names of Newton, Navier, Poisson, Graham, Maxwell, Stokes and Helmholtz with a thousand others testify that this field has been well and competently tilled. Even from the first the flow of liquids has been a subject of practical importance, yet the subject of Hydraulics has never become more than an empirical subject of interest merely to the engineer. Unfortunately the theory is complicated in that the flow of matter may be hydraulic (turbulent), viscous (linear), or plastic, dependent upon the conditions. It was in 1842 that viscous flow was first differentiated from hydraulic flow, and only now are we coming to realize the important distinction between viscous and plastic deformation. Considering the confusion which has existed in regard to the character of flow, it...



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