



Notes on Hydraulics: Prepared for the Use of the Students of the Civil Engineering Department of the Mass; Institute of Technology, Boston, Mass (Classic Reprint)

By George F Swain

Forgotten Books, United States, 2015. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book ***** Print on Demand *****. Excerpt from Notes on Hydraulics: Prepared for the Use of the Students of the Civil Engineering Department of the Mass; Institute of Technology, Boston, Mass A perfect fluid is an aggregation of particles which yields at once to the slightest effort made to separate than from each other. A perfect fluid has no cohesion, offers no resistance to change of shape, assumes the shape of the vessel containing it, and its shape may be changed without doing any internal work. Fluids are divided into liquids and gases: the former are incompressible and inelastic; the latter are compressible, elastic, tend to expand indefinitely, and therefore vary in density. No known fluid is perfect, but all offer some resistance to change of shape. An imperfect fluid, however, yields to the slightest effort made to separate its particles from each other, if that effort be continued long enough. The mechanics of fluids is divided into Hydrostatics, Hydrodynamics, Aerostatics, and Aerodynamics. The general term hydraulics may be held to include them all, though generally limited to the first two. Variation in...



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