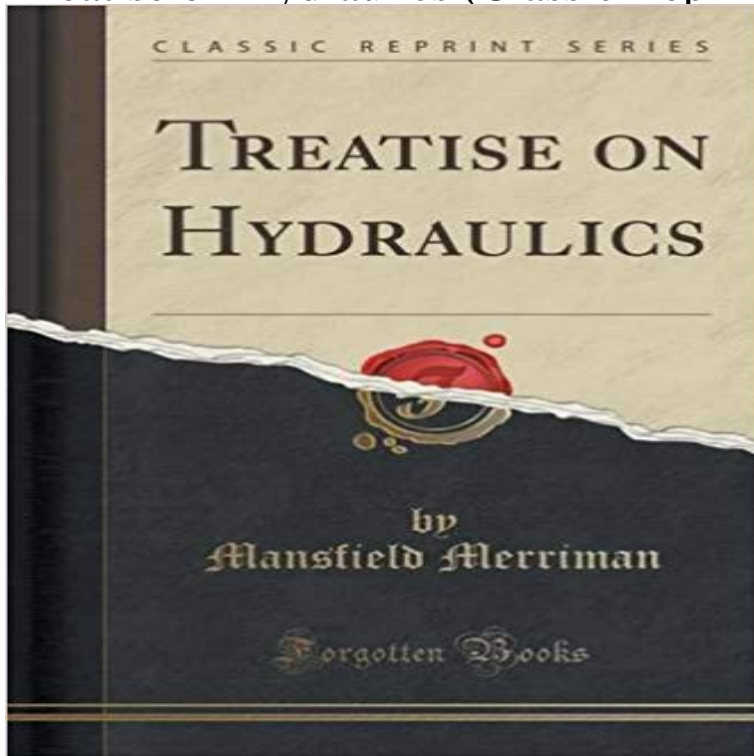


Treatise on Hydraulics (Classic Reprint)



Excerpt from Treatise on Hydraulics Since the publication of the first edition of this treatise, in 1889, many advances have been made in Hydraulics. Some of these have been briefly noted in later editions, but to properly record and correlate them it has now become necessary to rewrite and reset the book. In so doing the author has endeavored to incorporate other features that have been suggested to him by teachers and engineers, to whom he here expresses his thanks. All of these suggestions could not be followed, for thereby the work would have been expanded to two volumes. Indeed the question as to what should be left out has often been a more difficult one than that as to what should be inserted, and the author has made the decision from the point of view of the probable benefit that may accrue to students in engineering colleges and to engineers in ordinary conditions of practice. The same plan of arrangement as in former editions has been followed, but two new chapters have been added, one on Hydraulic Instruments and Observations which treats of the methods of measuring pressures and velocities, and another on Pumps and Pumping in which the various machines for raising water are discussed from a hydraulic point of view. Among the new topics introduced in the other chapters may be noted the vortex whirl that occurs in emptying a vessel, new coefficients for dams and for steel and wood pipes, the loss of head in pipes due to curvature, branched circuits or diversions in pipe systems, the influence of piers in producing backwater, canals for water-power plants, discharge curves for rivers, the tidal and the land bore, water-supply estimates, water hammer in pipes, the stability of a ship, and hydraulic-electric analogies. Many new examples and problems are given and in these the author has endeavored not only to exemplify the theory of the subject, but also to illustrate the conditions of actual

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