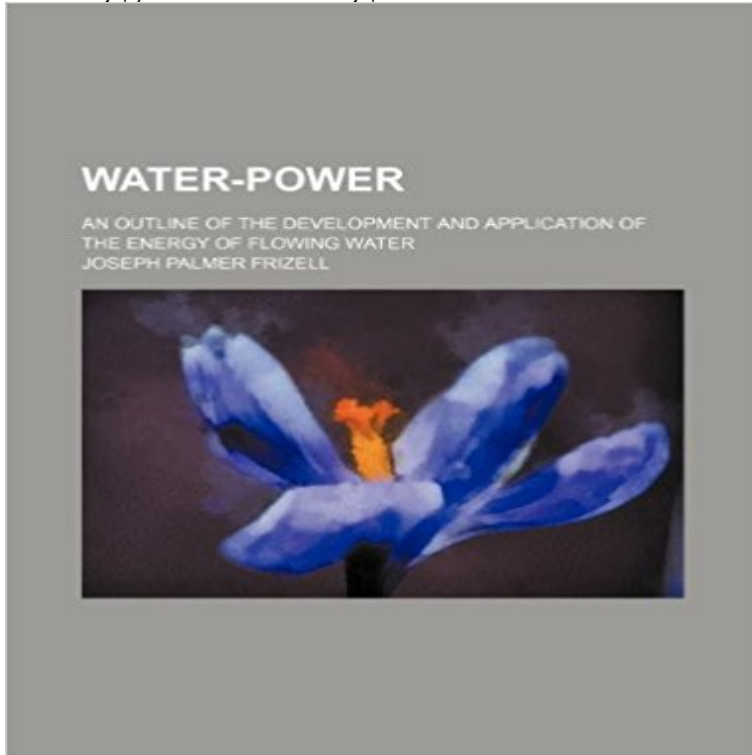


Water-Power; An Outline of the Development and Application of the Energy of Flowing Water



This historic book may have numerous typos and missing text. Purchasers can download a free scanned copy of the original book (without typos) from the publisher. Not indexed. Not illustrated. 1907 Excerpt: ...which is equivalent to a gain in the coefficient of useful effect to the same extent.... Experiments on the same turbine with and without a diffuser have shown a gain due to the latter of about 3 per cent in the coefficient of useful effect. The diffuser adds to the coefficient of useful effect by increasing the velocity of the water passing through the wheel, and it must of course increase the quantity of water discharged in the same proportion. If it increases the available head 3 per cent, the velocity, which varies as the square root of the head, must be increased about 1.5 per cent, and the quantity discharged must be increased in the same proportion. The power of the wheel, which varies as the product of the head into the quantity of water discharged, must be increased about 4 per cent. The Flume.--In order to cause the water to act upon the wheel, the latter is usually enclosed in a chamber communicating with the upper level by a penstock or head-race, and with the lower level by a tail-race, which it enters by passing through the wheel. This chamber is called the flume. The outward-discharge turbine does not require a flume properly so called, but, as very few of that class of wheels are now built, we may regard the flume as a necessary appendage of the turbine. The flume may be of wood, iron, stone, or a combination of these materials, the choice depending very much upon the head. With a head not exceeding 15 feet, wood or a combination of wood and stone will generally be found preferable, and with the aid of draft-tubes the same construction may be employed up to a head of 30 feet. Above this limit iron is generally to be preferred. Fig. 164 is a vertical cross-section of a flume for a

double turbine on a horizontal shaft under a head of 15 t...

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