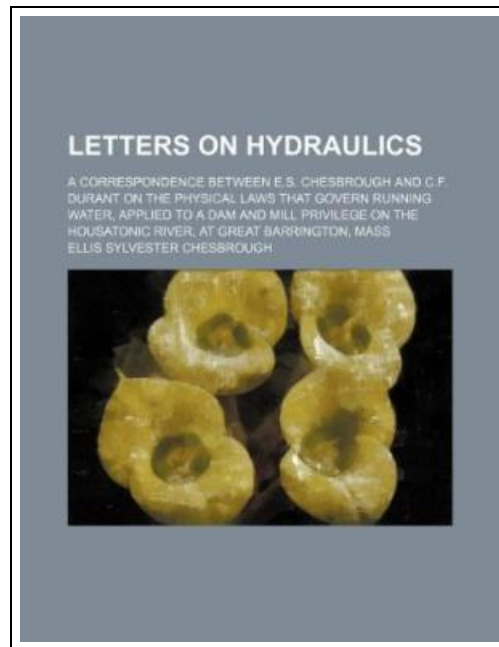


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Rarebooksclub.com, United States, 2012. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book ***** Print on Demand *****.This historic book may have numerous typos and missing text. Purchasers can download a free scanned copy of the original book (without typos) from the publisher. Not indexed. Not illustrated. 1849 Excerpt: .shorten our discussion of this matter, if you would point out definitely, where my formula is wrong; or, if you prefer it, give me one that is right, by stating it in such clear terms that I cannot mistake it. At the same time, you would favor me by letting me know, for what distance at the dam the river would be only 75 feet wide, if the dam were removed. In haste, Yours, c, E. S. CHESBROUGH. C. F. Durant, Esq. New York, July 13th, 1849. E. S. Chesbrough--Dear Sir: Your letter of the 10th inst., is at hand. It is clearly wrong in any formula for computing inclination in running water, to give fictitious values to perimeter. The perimeter of a river must always be the bottom and sides, neither more or less; and when the river is assumed at 100 feet wide, with depth from 2 to 5 feet, the perimeter must never be less than 104, and never more than 110 feet; the laws require strict compliance to this rule. Your formula in the above case, make perimeter from 82 to 1776 feet. The resistance or friction, is as the square of the velocity, and when rocks, or piers, or narrowed sides obstruct the channel, then V^2 must have an increased force, by increasing the radius of Du Buat = P above, and thus increasing the inclination below. The original 75 feet width of channel at dam, I think, would not exceed...



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