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rules, and formulas pertaining to mechanics,  
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*Charles Haynes Haswell*

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# Mechanics' and engineers' pocketbook of tables; rules, and formulas pertaining to mechanics, mathematics, and physics

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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. 1890 Excerpt: ... power = 20 H. 33000 Useful ICflect of an Overshot-wlieel. With a large wheel running in most advantageous manner,.84 of power may be taken for effect,.. Velocity of a wheel bears a constant ratio, for maximum effects, to that of the flowing water, and this ratio is at a mean.55. Ratio of effect to power with radial-buckets is.78 that of elbow-buckets. Ratio of effect decreases as proportion of head to total head and fall increases. Thus, a wheel 10 feet in diameter gave, with heads of water above gate, ranging from.25 to 3.75 feet, a ratio of effect decreasing from.82 to.67 of power. Higher an overshot-wheel is, in proportion to whole descent of water, greater will be its effect. Effect is as product of volume of water and its perpendicular height. Weight of arch of loaded buckets in lbs. is ascertained by multiplying.444 of their number by number of cube feet in each, and that product by 40. TTradershot-wh eel; Undershot-wiikel Is usually set in a curb, with as little clearance for escape of water as practicable 5 hence a curb concentric to this wheel is more effective than one set straight or tangential to it. Computations for an undershot-wheel and rules for construction are nearly identical with those for a breast-wheel. Buckets are usually set radially, but they may be inclined upward, so as to be more effectively relieved of water upon their return side, and they are usually filled from.5 to.6 of their volume. Depth of shrouding should be from 15 to 18 ins., in order to prevent overflow of water within the wheel, which would retard it. Velocity of periphery should equal theoretical velocity due to head of water X.57.,,, N'ote.--When constructed without shrouding, as in a current-wheel, etc., 1 nickels become blades. Sluice-gate should be set at an in...

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