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The Essential Elements of Practical Mechanics, Based on the Principle of Work (Paperback)

By Oliver Byrne

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. 1867 Excerpt: .by experiment. Here but three forces are applied, but any given number may be introduced; in the present case, $H/x \text{ Bibs.} + \text{Hot X C lbs.} = H n \text{ A lbs.}$ The student must not confound the principle of the equality of moments, just defined, with the intensity of forces usually considered by examining the motions they produce, or the spaces passed over when the motions are uniformly accelerated. It has been before shown that, generally, $W v (\text{Force}) = (I.)$; t being an extremely small portion of time, denominated an element, during which the velocity v is generated. The above formula shows that if, by observing the laws of motion, we know for each instant the value of the ratio -, we shall then have that of the corresponding effort designated (Force) in the above formula. Suppose we know, from experiment, that the motion is uniformly accelerated,...



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