

# AN ELEMENTARY TREATISE ON MECHANICS, EMBRACING THE THEORY OF STATICS AND DYNAMICS, AND ITS APPLICATION TO SOLIDS AND FLUIDS

Ll.d. Augustus W. Smith

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AN ELEMENTARY TREATISE ON MECHANICS, EMBRACING THE THEORY OF STATICS AND DYNAMICS, AND ITS APPLICATION TO SOLIDS AND FLUIDS Ll.d. Augustus W. Smith 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. 1874 Excerpt: ...their original form, they are called soft. There are no known bodies e"ther perfectly elastic or per fectly inelastic, but these states may be considered as limits to the various degrees of elasticity presented in nature. 243. Prop. To determine the velocity of two inelastic bodies after direct impact. Since the bodies are inelastic, the force of restitution is zero, and the bodies will move on together with a common velocity. 1. Let m j and m2 be the masses or bodies moving in the mz same direction with the velocities-----0 vx and v2 (vt?.,), and v their common velocity after impact. If F and F7 are the forces which impress on the bodies their respective velocities, then (38) F=mlvl, and Ff=m2v2, and their resultant, F+F'=m1vl+m2v2. After impact the bodies move on together as one mass, and its momentum (ml+m2)v must be a measure of the force F+F'..". (m1+ma)v=m1v1+m2va9 m,v, +oo or v= "-. (46) 2. If the bodies move in opposite directions, the resultant of the forces will be F--F;., FF'==m1v1-m2v2==(m1+m2)v, m.v,--m,,v0 or v=----. (47) m1+m2 A' The same result will be obtained by changing the sign of  $v_2$  in (46). Hence the velocity of two inelastic bodies after impact is equal to the algebraic sum of their momenta before impact, divided by the sum of their masses. Cor. 1. If two bodies move in opposite directions, with veloci-,% ties reciprocally proportional to their masses, they will rest afte? impact. For ml: m2--v2: vx gives m vJ=m2v2, which, substituted in (47), g'.ves v0. Cor 2. If?n2 is at rest before irr oact, 2=0, and m,v. ml--m2 and if, at the same time, the masses are equal, Cor. 3. If the masses are equal, and move in the same di recti on,-f A opposite directions, 2 244. Prop. In the impact of inelastic bodies there is a lo...

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