



The Viscosity of Solids Volume 73 (Paperback)

By Carl Barus

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. 1891 Excerpt: .based on the assumption that the elastic forces are dependent not only on the present but on the preceding deformations of the body. The effect of earlier states of stress on the existing stress diminishes with the intervening time but is independent of intervening states of stress. Different viscous deformations are superposable. Boltzmann s theory, therefore, presupposes the phenomenou1 and brings the laws of viscosity tersely into formula. If C_j is an interval of time reckoned back from $t-a$, when the strain ϵ existed, then Boltzmann s law may be clearly exhibited in its application to the problem of vibration of a viscous solid. Given a wire of the solid of length l and radius R . Let the upper end be fixed, and the lower end be attached to a heavy bob, whose moment of inertia for the given conditions is K . Then the equation...



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