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The Calculus Volume 20

By Ellery Williams Davis

Rarebooksclub.com, United States, 2013. 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 usually download a free scanned copy of the original book (without typos) from the publisher. Not indexed. Not illustrated. 1912 edition. Excerpt: . $y = oe^{-\sin(t + e)}$ is a damped vibration, which may be written (5) $y = A \sin(t + e)$, where $A = ae^{bi}$. Here A is a variable decreasing amplitude, whose relative rate of decrease is $-dA/dx A = 6$; that is, the relative rate of decrease of A is constant. The successive derivatives of y , by (4), are: $-ae^{-bt} \sin(t + e) + k \cos(kt + e) = ae^{-W \sin(t + e) - 2 \cos(t + e)}$, whence it follows that (6) $+2 + (2 + fc^2)j = 0$. t at dt Equations which contain derivatives are called differential equations; thus (6) is the fundamental differential equation for damped vibrations. EXERCISES XXXV.--DAMPED VIBRATIONS 1. Each of the following equations represents a damped harmonic vibration; find the speed and the acceleration in each case; and write an equation connecting...



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