Algebra Volume 1; An Elementary Text-Book, for the Higher Classes of Secondary Schools and for Colleges

By George Chrystal

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. 1904 Excerpt: .T/P. Example 1. If s oc f when/ is constant, and s a/ when t is constant, and 2s=f when 1 = 1, find the relation connecting, ?, /, I. It follows by a slight extension of 20 (5) that, when/and I both vary, s: ft1. Hence s = afp, where a is a constant, which we have to determine. Now, when 1 = 1, s=J/, hence /=-/l2, that is, kf=af; in other words, we must have a= J. The relation required is, therefore, s=fp. Example 2. The thickness of a grindstone is unaltered in the using, but its radius gradually diminishes. By how much must its radius diminish before the half of its mass is worn away? Given that the mass varies directly as the square of the radius when the thickness remains unaltered. Let m denote the mass, r the radius, then by data,...

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