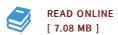# Treatise on Algebra

By A M Elias Loomis

Not Avail, 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. 1852 Excerpt: . quantities a, b, c, d, e, f are in continued proportion. (212.) If four quantities are proportional, the product of trie extremes is equal to the product of the means. Let a: b:: c: d. Then wTill ad=bc, For, since the four quantities are proportional, a c bd Multiplying each of these equals by bd, the expression becomes abd bed or ad=bc. Thus, if 3: 4:: 9: 12, then 3X12=4X9. (213.) Conversely, if the product of two quantities is equal to the product of two others, the first two quantities may be made the extremes, and the other two the means of a proportion. Let ad=bc. Then will a: b:: c: d. For, since ad=bc9 dividing each of these equals by bd, the expression becomes (214.) The preceding proposition is called the test of proportions, and any change may be made in the form...

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