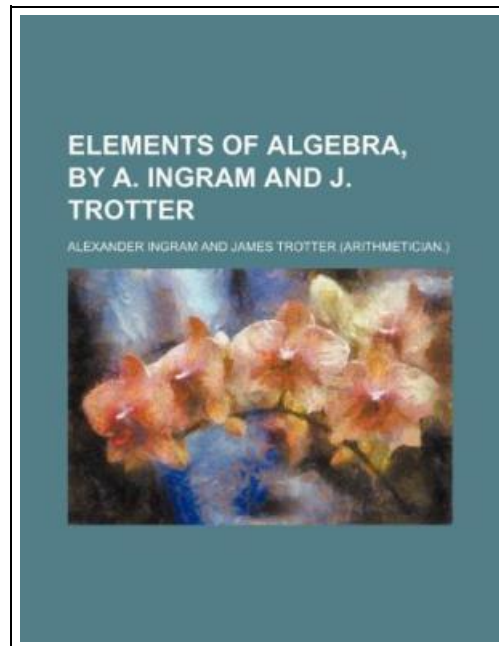


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Rarebooksclub.com, United States, 2012. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book ***** Print on Demand *****.This historic book may have numerous typos and missing text. Purchasers can download a free scanned copy of the original book (without typos) from the publisher. Not indexed. Not illustrated. 1844 Excerpt: .if we take $x = 1, 2, 4, 6, 8, 16, c.$; but Euler shows that if $x = 32$, then $2 + 1 = 641 \times 6700417$. It is manifest that the number of primes is infinite, since the series $l + 4 + J + + -t - fa, c.$ is infinite. Though we cannot find an algebraic formula which contains only primes, nor one which contains all such numbers, or is their general law, yet we have some formulae which are remarkable for the multitude of primes which they contain. Thus, if in the formula $x^2 - x + 41$, we take $x = 0, 1, 2, 3, 4, c.$ we shall have 41, 43, 47, 53, $c.$ of which the first 41 terms are primes; in the formula $x^2 + x + 17$ the first 17 terms are primes; and in the formula $2z^2 + 29$, the first 29 terms are primes. The expression $2a; + 1$, according as x is even or odd, contains the two forms $4 + 1$ and $4a; - 1$, two principal divisions of prime numbers; the form $4a; + 1$ may be subdivided into $8a; - 1$ and $8a; - 3$, and the form $4a; - 1$, into $8a; - 1$ and $8a; + 3$, so that all the primes may be reduced to these four forms. The forms $6z + 1$ according as x is even or odd, give, in reference to 12, the four forms $12a; + 1, 12a; - 5, 12a; - 5, 12a; - 1$, each of which contains an infinite number of primes. In general, if...



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