



## Theoretical Elements of Electro-Dynamic Machinery Volume 1

By Arthur Edwin Kennelly

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. 1893 Excerpt: .having a radius of one millimetre would have a pressure exerted on its surface due to the stress from its  $2X3X3$  18,000 = 5,730 dynes per own flux of  $3.1410 X (0.1)s$  3.1410 cubic centimetre of its volume, and a small element in or near the surface of any shape occupying  $TjVT$ th of a cubic centimetre would be forced towards the axis by a pull of 5.73 dynes. Three-fourths of this stress is due in a round wire to side pressure and one-fourth to the tension along flux paths encircling the surface. Fig. 18 represents two systems of potential. One, indicated by the parallel straight lines, belongs to a uniform intensity. The other, shown in radial dotted lines, is due to a long, straight, current-carrying wire appearing in section at c. If the parallel lines are one centimetre apart  $Ji = 5$  in the first system...



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