Answers to Questions Volume 4

By International Schools

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. 1901 Excerpt: .of two metals are inversely proportional to their respective conductivities, r: rt:: 1: 6.08, or r = 6.08 rv Substituting 14 for r r = 6.08 X 14 = 85.12 ohms per mile, the resistance of the iron wire. As the resistance of the conductor is proportional to its length (Art. 2292), then, by formula 406, the resistance of 1,000 feet of the iron wire is 85.12 X 1,000,0,0, . r = rU n = 16.1212 ohms. Ans. 5,280 Note.--In the two cases, as the diameters of the wires are equal, their sectional areas are also equal; therefore, the sectional areas can be neglected in solving the problem. See Art. 2293. (1166) The sum of the currents in the three branches is 7.7 + 23.9 + 15 = 46.6 amperes. The difference of potential between the point where the branches divide and the point where they...

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