

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. 1871 Excerpt: ...have a simple formula applicable to any train; 2nd. That the trains must be arranged in two groups, the first comprising goods trains moving at from 12 to 32 kilometres an hour; the second, all trains moving at a rate of speed greater than 32 kilometres. Tarle XIX.--Application Op Hardings Formula,  $R = 2.72 + 0.094 V + \text{Goods and Mixed Trains}$ . 1st Group.--Goods Trains moving at from 12 to 32 kilometres an hour upon a level, the curves being of a long radius, and the weather fine.--When the rate of speed is low, the term in  $V^2$  of the equation 5 has so little importance that it may be suppressed. The nature of the lubricating substance has a notable influence, occasioning a considerable change in the coefficients. The two following formulae are the result of the tentative processes to which we were obliged to have recourse;--For trains lubricated with oil,  $r = 1.65 + 0.005 V$ . a For trains lubricated with grease,  $r = 2.30 + 0.05 V$ . 6 These formulas show the advantage possessed by oil over grease at a temperature of 15. Below this temperature, the advantage increases-rapidly; above, on the contrary, it becomes less. Table XX. gives the results of these formulas applied to our experiments; it will be seen that they differ but little from those obtained by actual trial.-apflication Op A New Formtla To The Calculation Op The Resistance Op Goods Trains,  $R = 2.30 + 0.05 V$ . Tarle XXI.--Application Op Hardings Formula,  $R = 2.72 + 0.094 V + \text{Passenger Trains}$ . 2nd Group.--All Trains moving at a rate of speed greater than 32 kilometres, upon a level, the curves being of a long radius.--Table XXI. gives the results of the application of Hardings formula to these trains. They are much too great for heavy trains, are nearly true for light stopping trains, and are too small fo...

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