



## Report on the Substitution of Metal for Wood in Railroad Ties Volume 1-4

By Edward Ernest Russell Tratman

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. 1890 Excerpt: .by two angle-bars each, or one straight and one angle bar. There are nine ties to a rail length of 23.94 feet. The ballast is usually of gravel, and blast-furnace slag is used where gravel is scarce; it is laid flush with the top of the ties, and is 12 to 14 inches deep. The mileage of the railways in 1888 was as follows: Sweden, 1,547.52 miles of government lines and 3,025.60 miles of private lines; all the former are of standard gauge (4 feet Si inches), but 908.92 miles of the latter are of gauges varying from 4 feet to ,32.08 inches. There are only 1.86 miles of double track. Norway, 968.44 miles, of which 926.28 miles are owned by the government and 42.16 miles by a private company. The government lines include 324.88 miles of standard gauge and 601.40 miles of 3 feet 6..



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