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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. 1907 Excerpt: the drop in the rail return, by booster transformers, c, in order to reduce electrolysis, interference with other circuits, and shocks to persons touching the rails. Of these troubles, interference seems to be the most important, especially as affecting telephone circuits. Telegraph instruments can be effectively shielded by inductance or capacity, but telephone circuits can only be protected by cabling. Dangerous electrostatic charges may be induced by the high-voltage trolley wires on neighbouring wires, which must therefore be earthed or put underground. Automatic signalling with track circuits can easily be employed. The trolley wire must be suspended at a uniform level, and arranged for underneath collection. A single catenary carrying a horizontal auxiliary wire, from which the trolley wire is suspended by sliding clips, is the best for moderate spans (150 ft.), as it enables the variations in length of the trolley wire to be taken up by tightening gear. With suitable porcelain petticoat insulators there is practically no limit to the trolley pressure available. Methods of supporting the overhead construction on poles and in tunnels are shown. The collector must be of the bow type, with minimum inertia. The author's conclusion is that the single-phase system is the best for general use on English railways. The paper is fully illustrated. In the discussion, A. Siemens referred to the successful results of the Zossen experiments, and remarked that, when the engineering problems had been solved, the deciding factor was commercial efficiency. T. H. Schoepf argued...



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