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## The Transition Spiral: And Its Introduction to Railway Curves with Field Exercises in Construction and Alignment (Classic Reprint)

By Arthur Lovat Higgins

Forgotten Books, United States, 2015. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.Excerpt from The Transition Spiral: And Its Introduction to Railway Curves With Field Exercises in Construction and Alignment The aim of this handbook is to afford concise and complete demonstration of the introduction of transition curves, or spirals, in the various argument problems that accrue in connection with the construction or improvement of railway curves. Now the extent to which such problems can be satisfactorily essayed depends upon the mathematical development of the form of transition adopted, and the facility with which this development admits utilisation in the field - the effective compromise of mathematical truth with practical precision. Hence, besides fulfilling its objective function, the ideal transition curve must be easy and flexible in construction; a curve with simple, definite relations to main curves and straights; and, above all, one which can be introduced without the aid of special tables, such as hamper the construction of American tabular spirals. The curve most readily amenable to these requirements is to be found in the clothoid = m the spiral advanced and investigated in this connection by Mr....



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