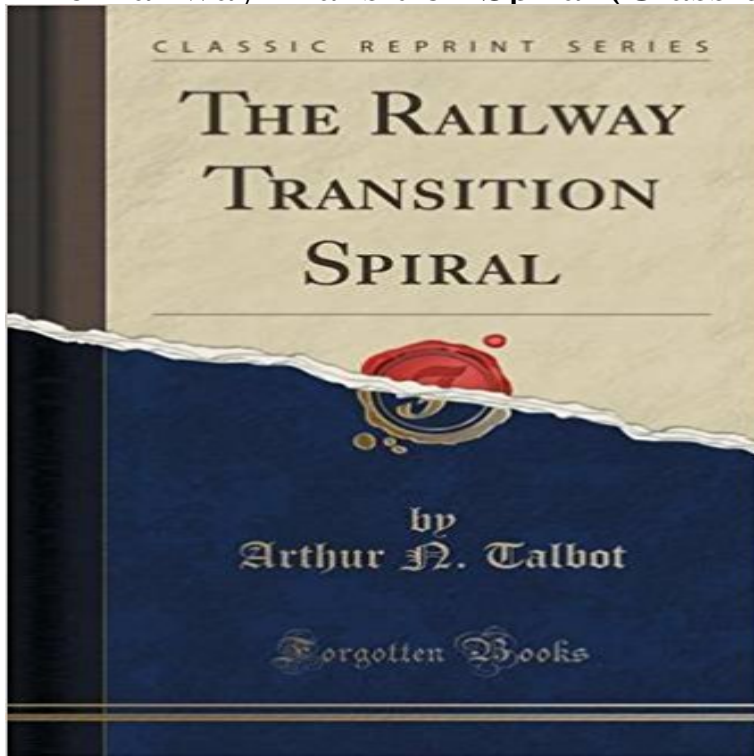


## The Railway Transition Spiral (Classic Reprint)



Excerpt from The Railway Transition Spiral  
The railway transition spiral here presented is a flexible easement curve of general applicability and of comparatively easy analysis. The conceptions and methods used are similar to those of ordinary circular railroad curves. The definition is based upon degree-of-curve, and degree-of-curve, central angle, and deflection angle may be calculated, and the curve may be located by transit and chain or by co-ordinates from tangent and circular curve. The field work is quite similar to that of circular curves. The spiral is easily applied to a variety of field problems and to a wide range of location and old track conditions. In the principal formulas, angles, co-ordinates, offsets, etc., are expressed in terms of the length or distance along the spiral. The use of series in the development of the properties permits an estimate of the error involved in discarding negligible terms. The principal easement curves in use give alignments which approach each other very closely, so that, for equal easements, it may be expected that the riding qualities will not differ sensibly. In general, ease of calculation, simplicity of field work, and general applicability and flexibility will determine the form of easement curve to be selected. To establish the underlying principles of an easement curve of any range requires considerable mathematical analysis. The ordinary treatment of circular railway curves assumes previous knowledge of the geometrical properties of the circular curve, but the properties of the railway spiral must be deduced from the beginning. Fortunately the spiral is not complex, and its properties prove to be simple and general. A general treatment of such a curve has many advantages over approximate or special treatments. Approximate solutions may overlook important variables, and short methods may be limited to short and inefficient

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