

Development of Simple Catenary System for the Operation over 300 km/h

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Compound catenary system for Shinkansen line has seen a period during which its large-scale renewal is required. In order to facilitate renewal and to reduce maintenance costs, the simple catenary system should be installed to the Shinkansen lines concerned instead of the renewal of the compound catenary system. In this study, a new types of simple catenary system for the operation at 320 km/h, which is the maximum speed of commercial Shinkansen lines, is developed. Moreover, the simple catenary system for the operation at 360 km/h is also developed.