

A Method of Designing Railway Signalling System Based on RAMS Indicators

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Since the IEC published RAMS Standard in 2002 objective to railways, its importance and an impact of the standard to Japan have been conspicuous. On the contrary, new various train control systems based on information technology are under active development. Considering such situations, we assume that it is essential to establish a method to design railway-signalling systems, which has an excellent balance to the RAMS indicators at low costs. We propose the basic method to evaluate the performance of signalling system by a cost indicator based on the concept of RAMS, and confirmed that the method can evaluate systems appropriately considering of grade of line, circumstances and other factors.