

Study of Railway Systems Applied to a Decompression Tunnel

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In the high speed railway systems running on the ground surface, air resistance and noise have been very important problems. Significant favorable effect can be expected to these problems by decompressing the area around the train. In this report we have presented the results of the study on the railway systems running in a decompression tunnel, referring to the domestic and foreign research results. Furthermore, we developed the cost simulator, and implemented comparison of running performance of train between magnetic suspension railway and a conventional steel rail / wheel railway system on a set up model line in the decompressed tunnel.