

## **Reinforcement Method of Abutments and Retaining Walls Under Severe Conditions**

Taisuke SANAGAWA    Susumu NAKAJIMA    Masayuki KODA

The earth retaining structures like abutments and retaining walls are constructed at the boundary of bridges or embankments, and the many of them are along or crossing roads, rivers, or beside buildings. Therefore, for reinforcement constructions, strict conditions are normally placed, and the development of the effective method has been required. This paper introduces the new reinforcement methods recently developed, with application examples.