

**Estimation of Deformation Modulus of Ground and
Coefficient of Subgrade Reaction Depending on Ground Investigation Method**

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“Deformation modulus of ground” and “Coefficient of subgrade reaction” are important parameters in a foundation structure design. Since the stress-strain relation of soil indicates nonlinearity by strain level dependency, these parameters must be defined as equivalent linear elastic model. Moreover, in order to introduce a performance based design codes to foundation of railway structure, the partial safety factor design method for evaluation of these parameters must be introduced. In this paper, we clarified the strain level considering the design of the shallow foundation, and proposed an evaluation method to determine design values of these parameters from various ground investigation methods.