

Dynamic soil properties of soft clay of Chuseki-so

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A big earthquake may happen in Kanto are in the near future, and may cause big urban earthquake hazard. There is relationship between the earthquake hazard and soil properties, however, geological structure and soil properties in Chuseki-so have not been understood. Therefore, it is important that geological structure is applied to geotechnical engineering of urban earthquake hazard, especially Nakagawa lowland, which is one of area destroyed many house by Kanto earthquake. In this study, to clarify such purpose, we measure a shear wave velocity of clay samples cored from each layer classified by sedimentation environment, which take from the study by AIST, Geological survey of Japan. Additionally, we carried out the cyclic undrained triaxial test using soft clay cored from Kasukabe, Saitama.