

Rock Physics Digital Library -A data and knowledge base for modeling and interpreting shallow geophysical data -

*Toru Takahashi¹

1. Fukada Geological Institute

Fukada Geological Institute has opened a database called as Rock Physics Digital Library (RPDL) on its website, which consists of data and information about physical models for modeling and interpreting shallow geophysical data in civil and environmental engineering. Its website address is <http://www.fgi.or.jp/rpdl>. RPDL is composed of four kinds of data and knowledge that are geophysical and geotechnical datasets obtained in laboratory tests and well loggings, a comprehensive list of empirical relationships between geophysical and geotechnical properties, a guide of procedures for modeling of geophysical data, and a list of literatures on physical models and their applications. These data and information can be viewed on the screen and also downloaded at user's preference. The RPDL is continuously updated by inputs of new data and information from its users as well as ourselves. This paper demonstrates the data and information available in this database, and also shows a few applications of physical models to shallow geophysical data for solving civil engineering problems.

Keywords: rock physics, database, shallow geophysical data