

An experimental method for simple and easy sand composition analysis using a digital color scanner, a CAMSIZER, a soil c

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Sand is intermediate particle size between gravel and silt (0.063mm to 2mm). Sand always exists in the vicinity of our living environment such as beach, eolian dune and riverside. However, we took time and effort to analyze the composition of sand using traditional research methods (Kumon and Tateishi, 1998). Therefore, according to the development of science and technology in recent years, everyone can easily get physical property values of sediments in a short time and more exactly.

In this presentation, we report about experimental method of river sand composition analysis using a digital color scanner Pixus iP8100 (Canon), a CAMSIZER (Horiba), a soil color reader SPAD-503 (Minoruta) and a magnetic susceptibility meter KT-10 (Terraplus) in the basin of Kuji River, Ibaraki Prefecture.

Keywords: digital color scanner, CAMSIZER, soil color reader, magnetic susceptibility meter, Kuji River, sand composition

