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BUTSURI-TANSA(Geophysical Exploration)

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[\[Image PDF \(2999K\)\]](#) [\[References\]](#)**Slope failures due to heavy rainfall**Shinjiro Komata¹⁾

1) Nippon Koei co. LTD

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ABSTRACT Slope failures and debris flows due to heavy rainfall are frequent in Japan, which have damaged many lives and properties. They have occurred in this country under geological conditions prone to slope instability, and under meteorological conditions such as typhoon, frontal rain and snowfall.

In this paper we have reviewed the mechanism of slope failures due to heavy rainfall, and introduce the knowledge and the technology especially in geophysical investigation about where and when slope failures occur due to heavy rainfall.

Key words: rainfall, slope failure, seepage flow, permeability, hydro-geomorphology, hydrogeology

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