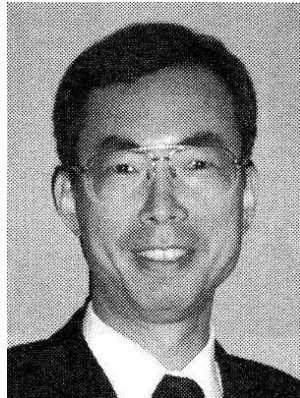


Alkali silica reactivity of andesite has been considered relatively simple regardless of various mineral compositions. The reactivity is considered to be attributed to its volcanic glass and reactive silica such as cristobalite and tridymite. In this study, the reactivity of andesite was evaluated by various accelerating test. Glassy andesite without silica mineral was innocuous in saturated NaCl solution whereas it showed reactivity in JIS A 1145, JIS A 1146 and ASTM C 1260. This is attributed to linkages of mineral composition of andesite and composition of pore solution. The results indicated one possibility that glassy andesite is innocuous even in specific environment where alkalis are supplied from environments such as deicing salt and sea water.



Yuichiro KAWABATA



Kazuo YAMADA



Hiromichi MATSUSHITA