Microstructures and magnitude of differential stress of natural quartz deformed at brittle ductile transition regions

# Toru Takeshita [1], Kyuichi Kanagawa [2], Tsutomu Miike [3], Osamu Nishikawa [4], Jun-ichi Ando [5]


We have analyzed microstructures in natural quartz deformed under the conditions of brittle-ductile transition regions (subgreenschist facies), and found that the upper part of the crust can sustain a significant amount of differential stress (up to ca. 2 kbars).