Transient ground deformation in tectonically active regions and implications for the mechanical behavior of the crust and upper mantle

by

Trever T. Hines

A dissertation submitted in partial fulfillment of the requirement for the degree of Doctor of Philosophy (Earth and Environmental Sciences) in the University of Michigan 2017

Doctoral Committee:

Associate Professor Eric Hetland Professor Jeroen Ritsema Associate Professor Jeremy Bassis Associate Professor Nathan Niemi Professor John Boyd