

**Two-Dimensional Finite Element Analysis of Porous
Geomaterials at Multikilobar Stress Levels**

Stephen A. Akers

Dissertation submitted to the Faculty of the
Virginia Polytechnic Institute and State University
in partial fulfillment of the requirements for the
degree of

Doctor of Philosophy
in
Civil Engineering

T. Kuppusamy, Chair
J. Michael Duncan
Thomas L. Brandon
George M. Filz
Marte S. Gutierrez

December 7, 2001
Blacksburg, Virginia

Keywords: Porous, Geomaterials, Finite Element,
Effective Stress

Copyright 2001, Stephen A. Akers