Reactive Transport in Porous Media

Edited by

Peter C. Lichtner
Center for Nuclear Waste Regulatory Analysis

Carl I. Steefel
University of South Florida

Eric H. Oelkers
Université Paul Sabatier

Cover: Contour plot of computed mineral volume fraction and fluid streamlines (white with arrows indicating direction) after an elapsed time of 7,500 years. Fluid undersaturated with respect to the mineral is injected at the left, causing the mineral to dissolve and thus increasing the porosity and permeability in this region. Zones of red indicate regions where the mineral has been dissolved completely while the blue zones indicate regions where the initial mineral volume fraction is still present. Due to the reactive infiltration instability, the front propagates as fingers rather than as a planar front.

(Lichtner, this volume, Figure 19, page 76).

Series Editor: Paul H. Ribbe
Department of Geological Sciences
Virginia Polytechnic Institute & State University
Blacksburg, Virginia 24061 U.S.A.

Mineralogical Society of America
Washington, D.C.