



## Geological Sequestration of Carbon Dioxide: Thermodynamics, Kinetics, and Reaction Path Modeling (Hardback)

By Luigi Marini

ELSEVIER SCIENCE TECHNOLOGY, United Kingdom, 2006.  
Hardback. Book Condition: New. New.. 240 x 168 mm. Language: English . Brand New Book. The contents of this monograph are two-scope. First, it intends to provide a synthetic but complete account of the thermodynamic and kinetic foundations on which the reaction path modeling of geological CO<sub>2</sub> sequestration is based. In particular, a great effort is devoted to review the thermodynamic properties of CO<sub>2</sub> and of the CO<sub>2</sub>-H<sub>2</sub>O system and the interactions in the aqueous solution, the thermodynamic stability of solid product phases (by means of several stability plots and activity plots), the volumes of carbonation reactions, and especially the kinetics of dissolution/precipitation reactions of silicates, oxides, hydroxides, and carbonates. Second, it intends to show the reader how reaction path modeling of geological CO<sub>2</sub> sequestration is carried out. To this purpose the well-known high-quality EQ3/6 software package is used. Setting up of computer simulations and obtained results are described in detail and used EQ3/6 input files are given to guide the reader step-by-step from the beginning to the end of these exercises. Finally, some examples of reaction-path- and reaction-transport-modeling taken from the available literature are presented. The results of these simulations are of fundamental...



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