



## Hayward Fault Rocks: Porosity, Density, and Strength Measurements: Usgs Open-File Report 2001-421 (Paperback)

By C A Morrow, D A Lockner

Bibliogov, United States, 2013. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.Porosity, density and strength measurements were conducted on rock samples collected from the Hayward Fault region in Northern California as part of the Hayward Fault Working Group s efforts to create a working model of the Hayward Fault. The rocks included in this study were both fine and coarse grained gabbros, altered keratophyre, basalt, sandstone, and serpentinite from various rock formations adjacent to the Hayward Fault. Densities ranged from a low of 2.25 gm/cc (altered keratophyre) to 3.05 gm/cc (fine gabbro), with an average of 2.6 gm/cc, typical of many other rocks. Porosities were generally around 1 or less, with the exception of the sandstone (7.6 ) and altered keratophyre (13.5 ). Failure and frictional sliding tests were conducted on intact rock cylinders at room temperature under effective pressure conditions of up to 192 MPa, simulating depths of burial to 12 km. Axial shortening of the samples progressed at a rate of 0.1 ?m/sec (fine samples) or 0.2 ?m/sec (porous samples) for 6 mm of displacement. Velocity stepping tests were then conducted for an additional 2 mm of...



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