



Proof Testing of Ceramics, Vol. 2: Theory (Classic Reprint) (Paperback)

By E R Fuller Jr

Forgotten Books, 2017. Paperback. Condition: New. Language: English . Brand New Book ***** Print on Demand *****.Excerpt from Proof Testing of Ceramics, Vol. 2: Theory The first part of this two part study presented the results of an experimental investigation of the effect of proof testing on the strength of a set of soda-lime silicate glass microscopic slides. Effects of stress cycle and test environment were investigated. Agreement between experimental results and theoretical predictions of strength distributions after proof testing were obtained when proof tests were conducted in inert environments, or when rapid rates of loading and short hold times were used in the proof tests. By contrast, when water was present in the environment and when slow rates of loading were used, strength distributions were obtained after proof testing that were not consistent with simple theoretical predictions. At the conclusion of Part I of this study, we noted that the lack of agreement between theory and experiment may be a consequence of the complex crack growth behavior associated with crack motion in moist gaseous environments. We also suggested that additional theoretical work be conducted to explore the possibility of complex crack growth effects on strength distributions. The second part of...



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