

Abstract :

Algeria Pipeline failure probabilities calculated by the Monte Carlo method are better than those given by the first-order reliability method (FORM) but have a longer calculation time. Shell 92 and RSTRENG codes are less conservative and DNV RP F101 and Modified ASME B31G standards more conservative when calculated reliability is overestimated because the failure probabilities of the latter are smaller. The curve obtained with the Netto-Teixeira formula almost merges with the standard R...