Figure 4.14: Variation of Friction Angle with $(N_1)_{60}$

Empirical correlation between friction angle ($\phi'$) and $(N_1)_{60}$ for fine sands from Skempton (1986) based upon Meyerhof (1956)

Empirical correlation between friction angle ($\phi'$) and $(N_1)_{60}$ for coarse sands from Terzaghi, Peck, and Mesri (1996)

Empirical correlation between friction angle ($\phi'$) and $(N_1)_{60}$ for sands from Skempton (1986) based upon Meyerhof (1956)

Data from Five Sites in Virginia,

Note: The undrained strength envelope for each of these soils has a cohesion intercept greater than zero.