

Consolidation

Real Soils

- nonlinear – stress is not proportional to strain
- elastoplastic – strain is not fully recovered upon unloading
- viscoelastic – stress-strain response is time dependent
- nonconservative – stress-strain response is history dependent

Figure 8.3a

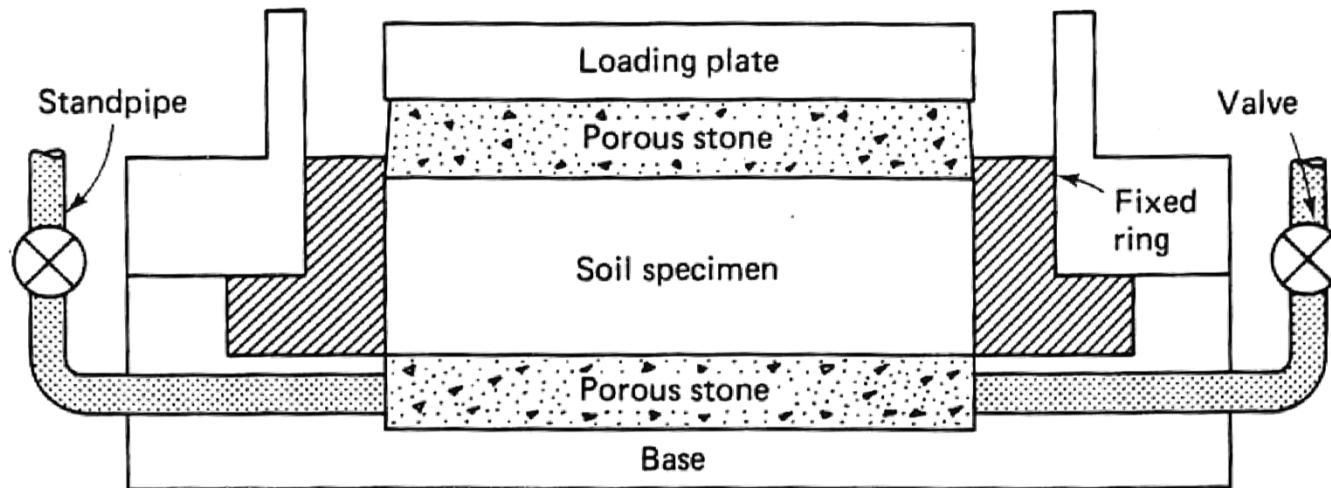
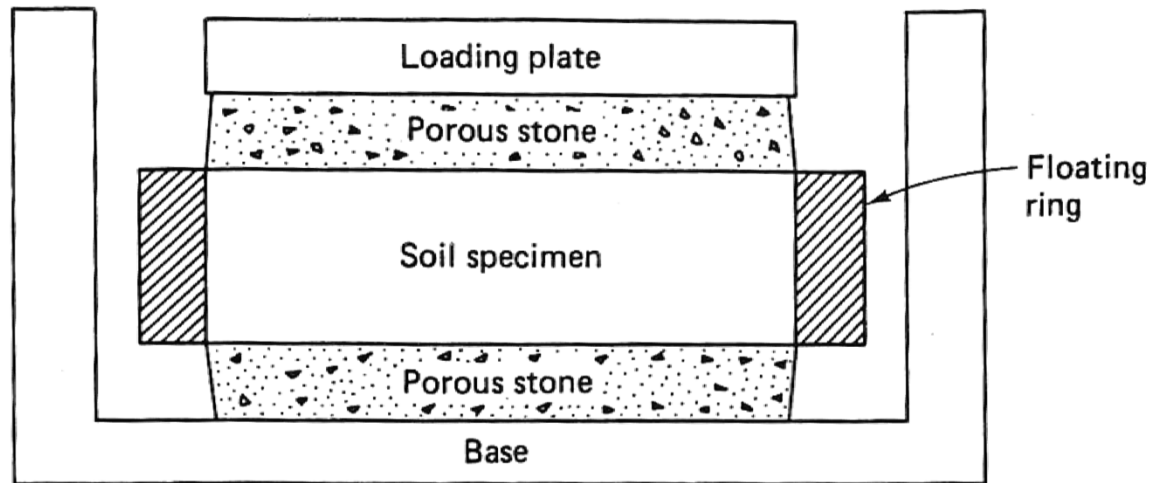
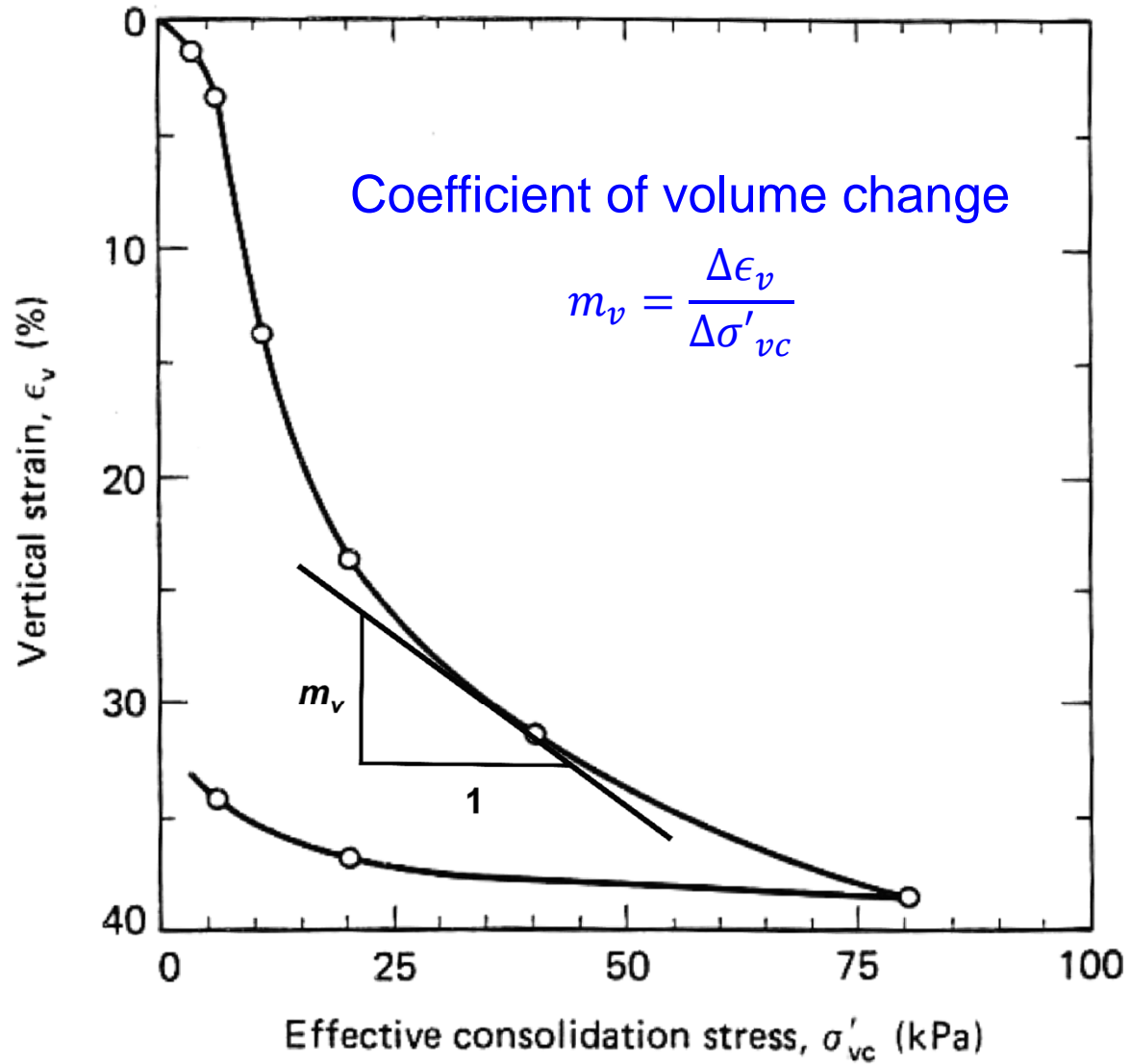


Figure 8.3b



(Holtz & Kovacs, *An Introduction to Geotechnical Engineering*, 1981)

Figure 8.4a



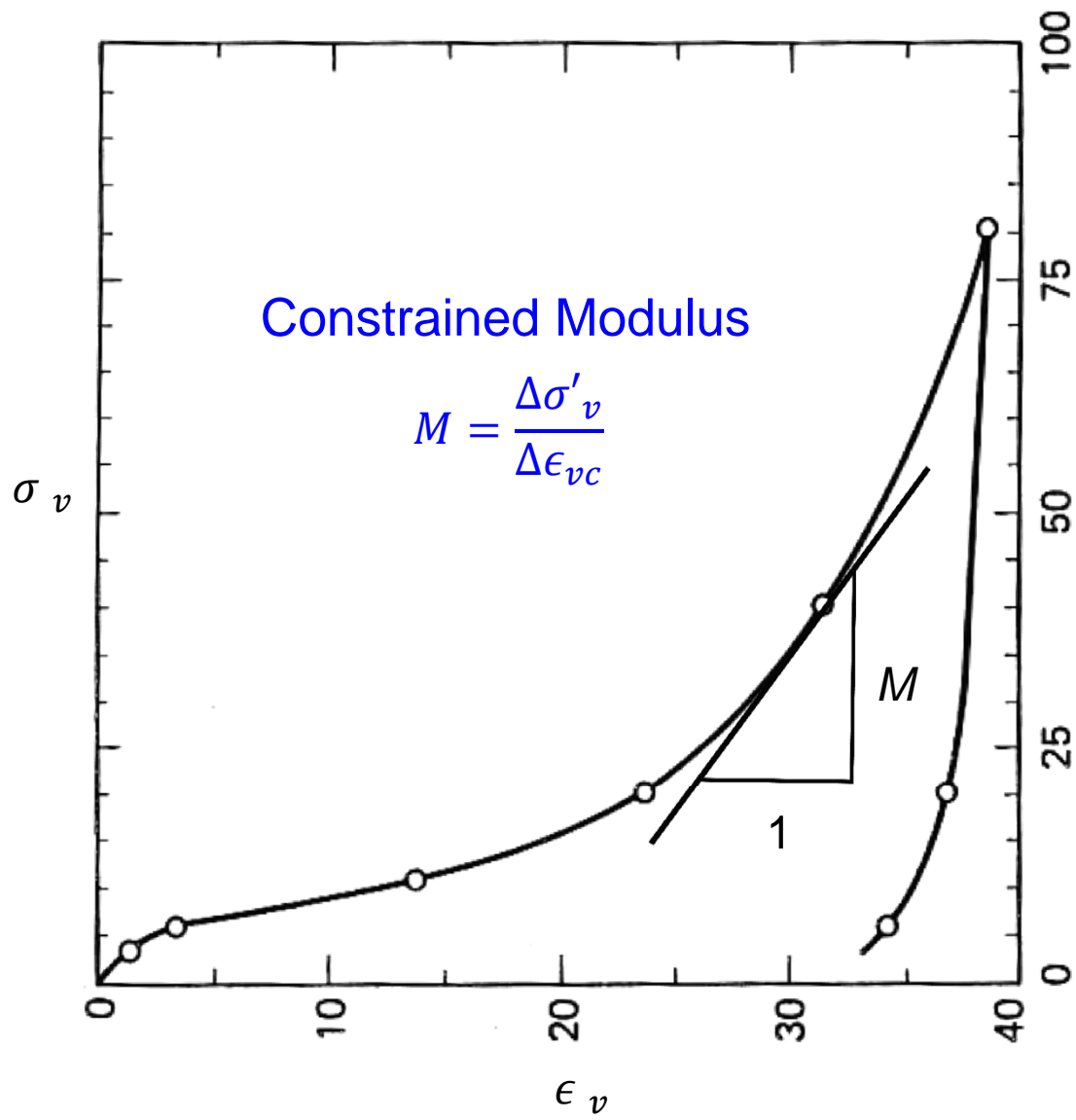
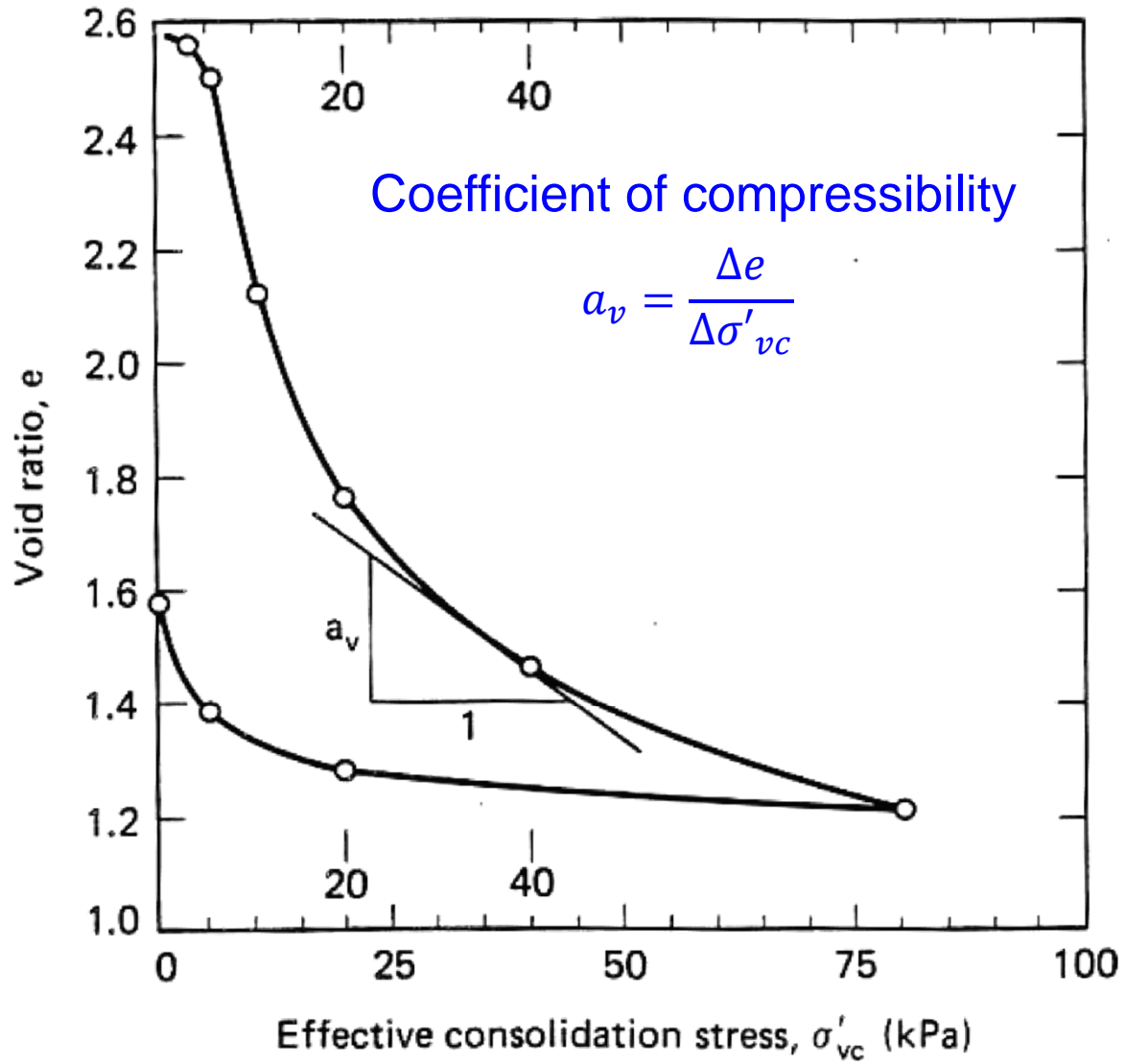
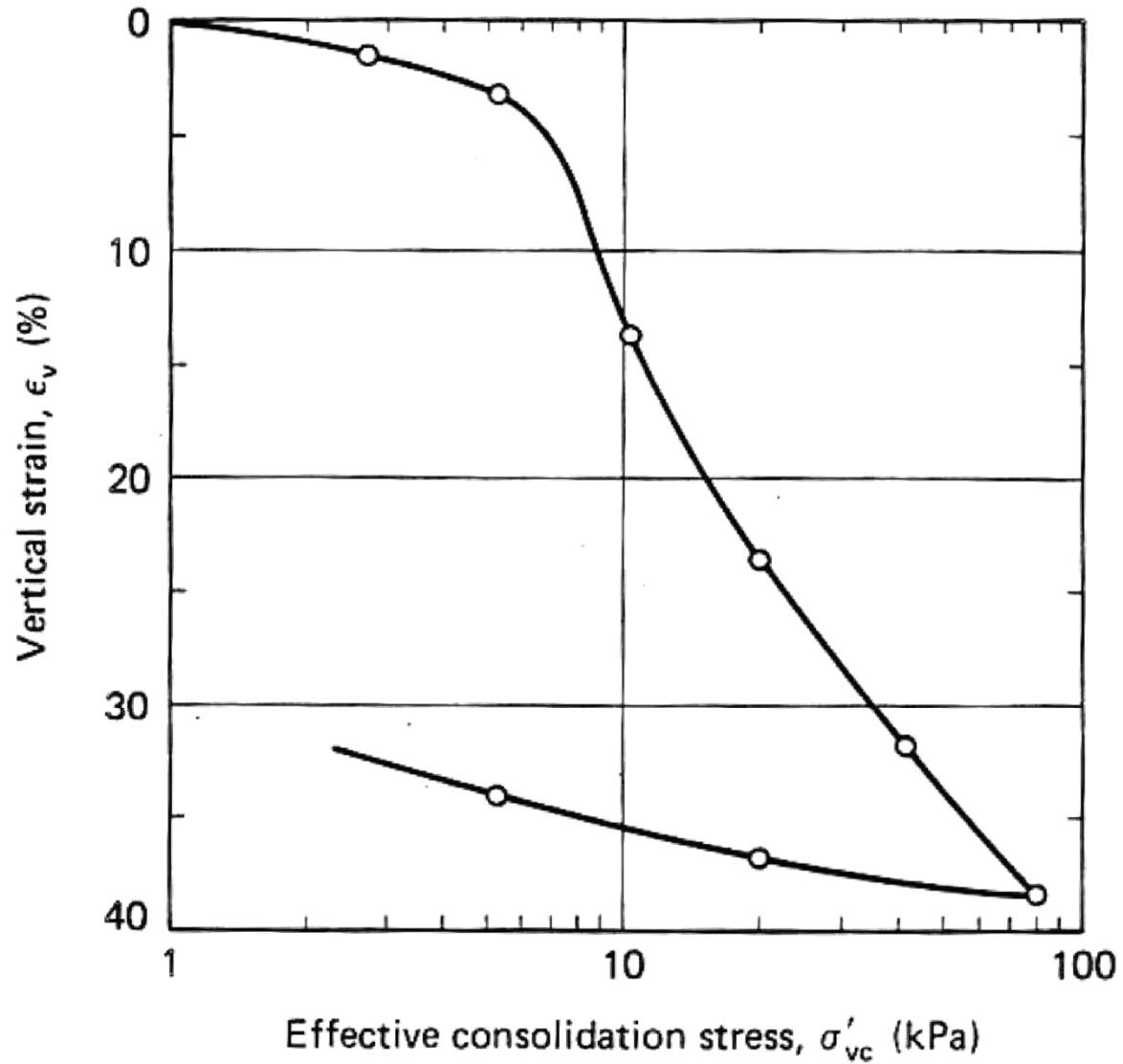


Figure 8.4b



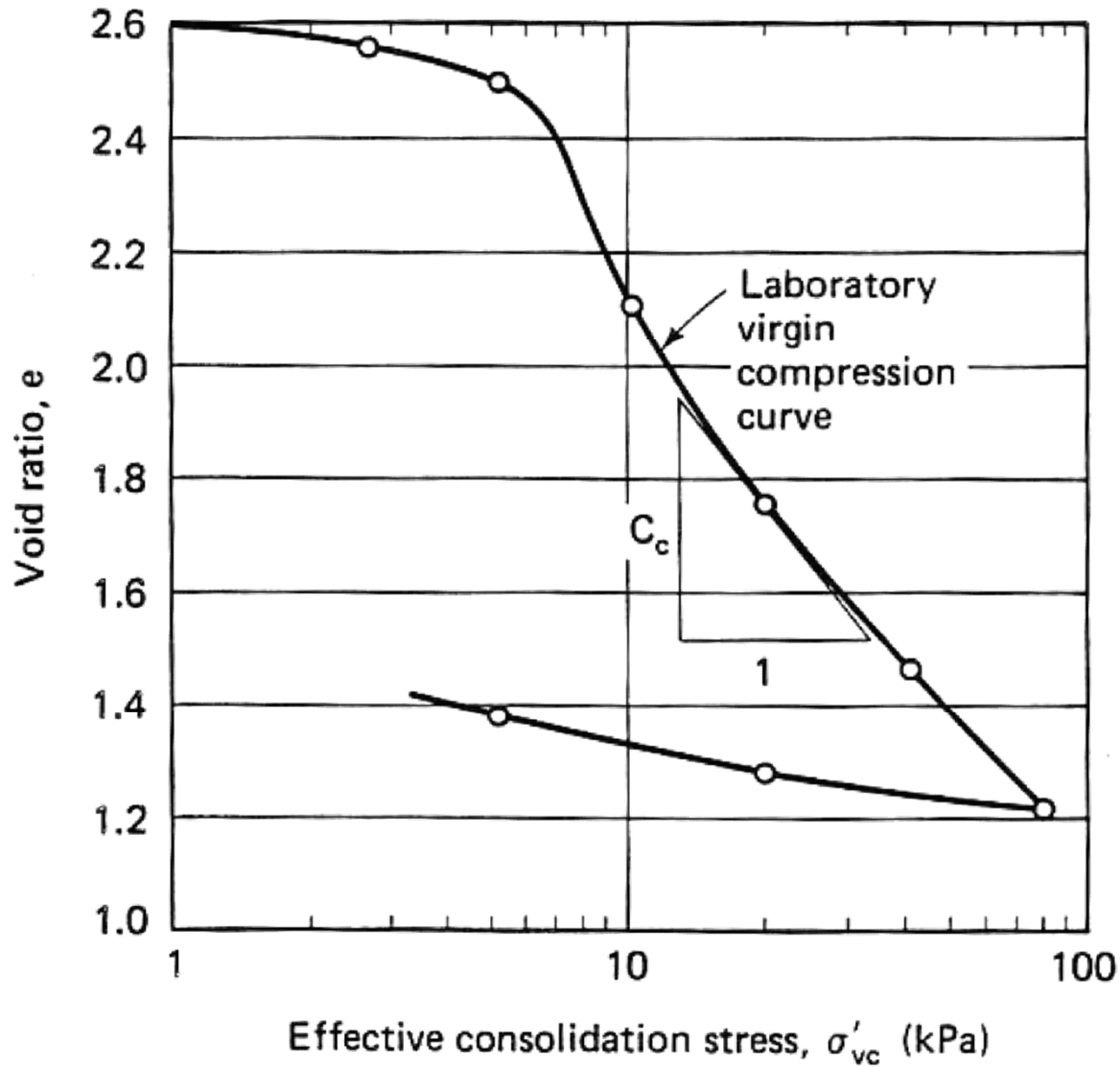
(Holtz & Kovacs, *An Introduction to Geotechnical Engineering*, 1981)

Figure 8.5a

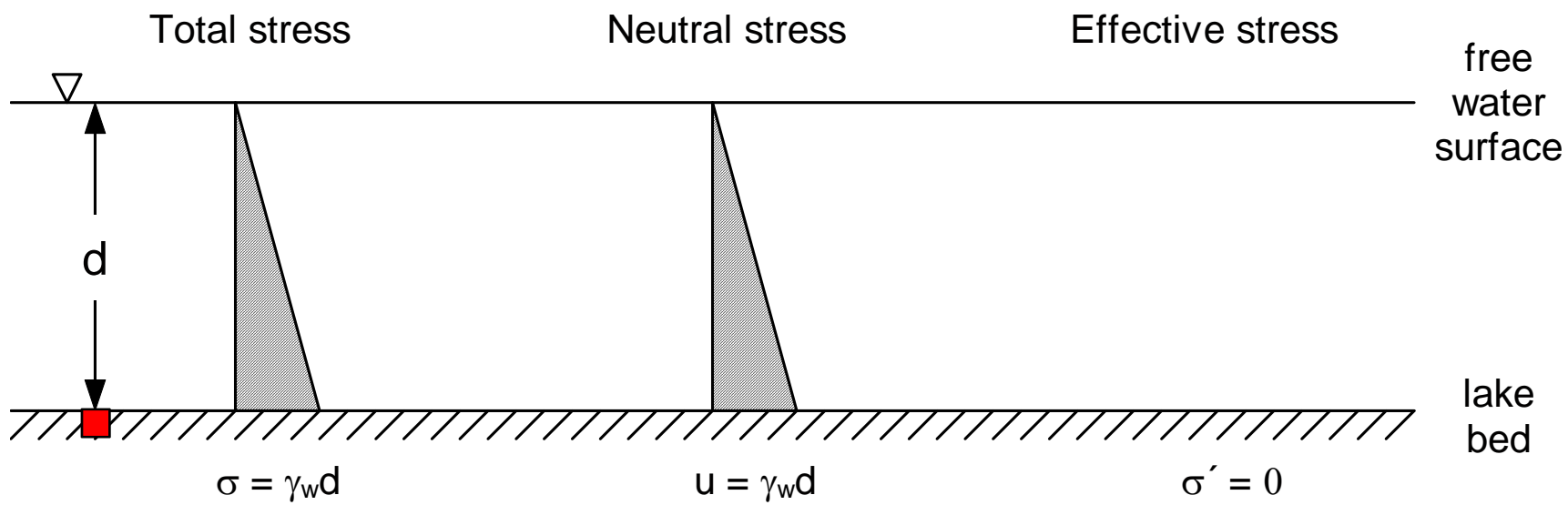


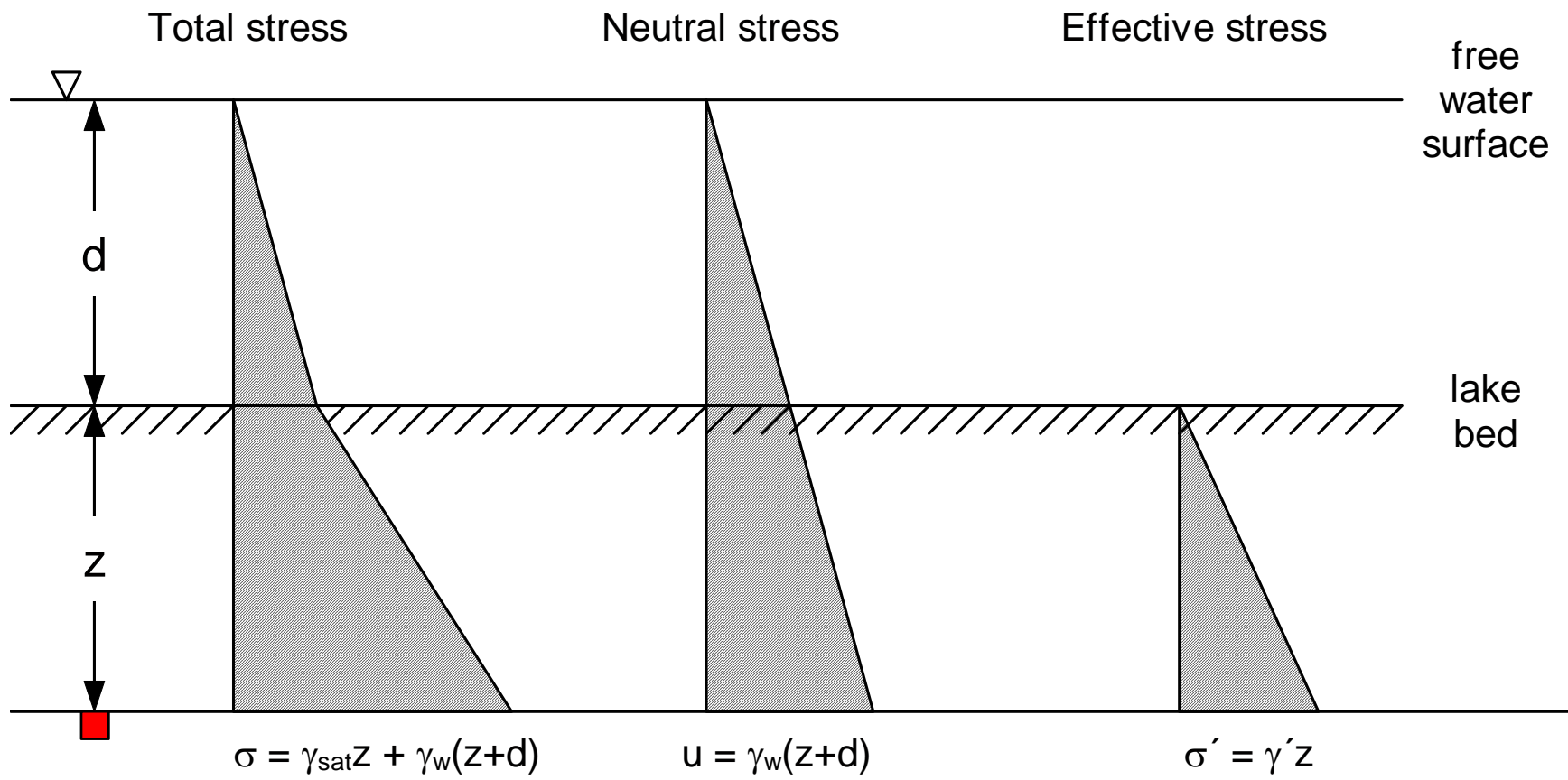
(Holtz & Kovacs, *An Introduction to Geotechnical Engineering*, 1981)

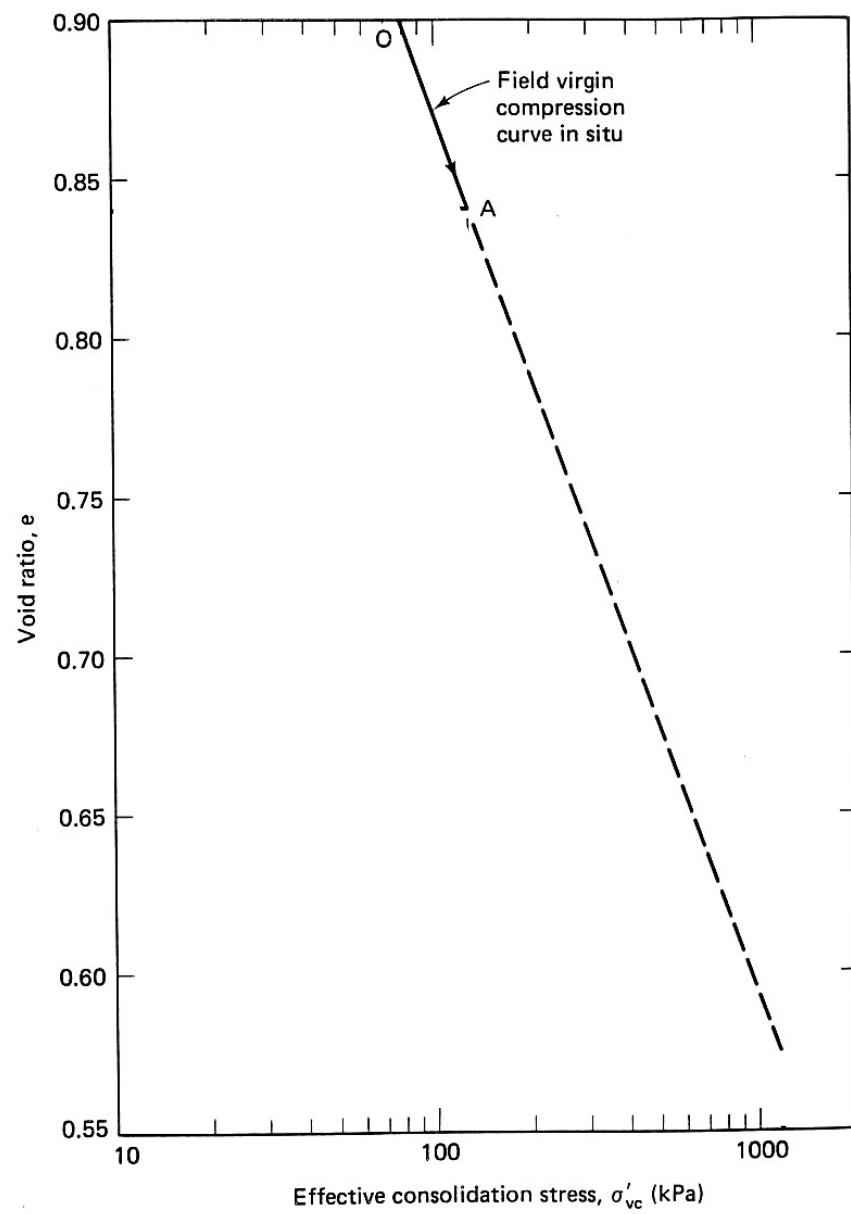
Figure 8.5b



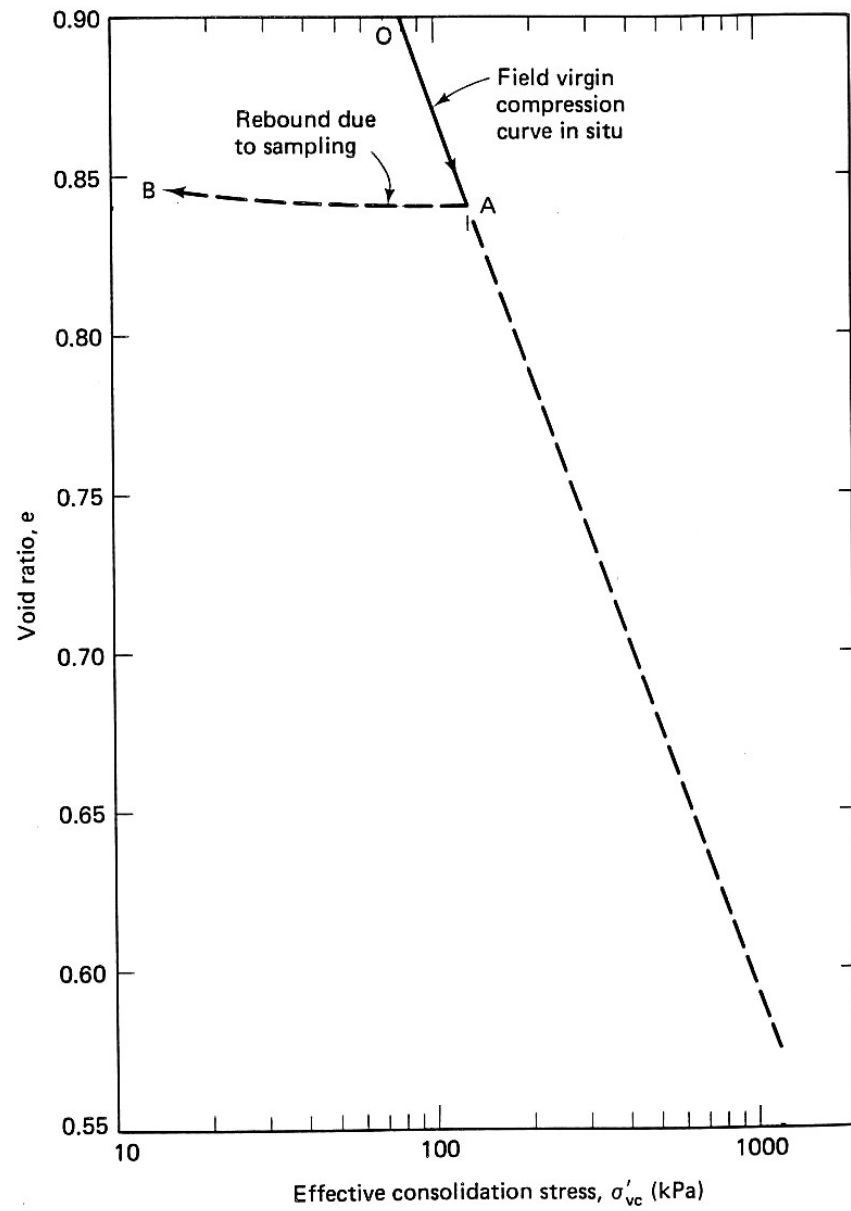
(Holtz & Kovacs, *An Introduction to Geotechnical Engineering*, 1981)



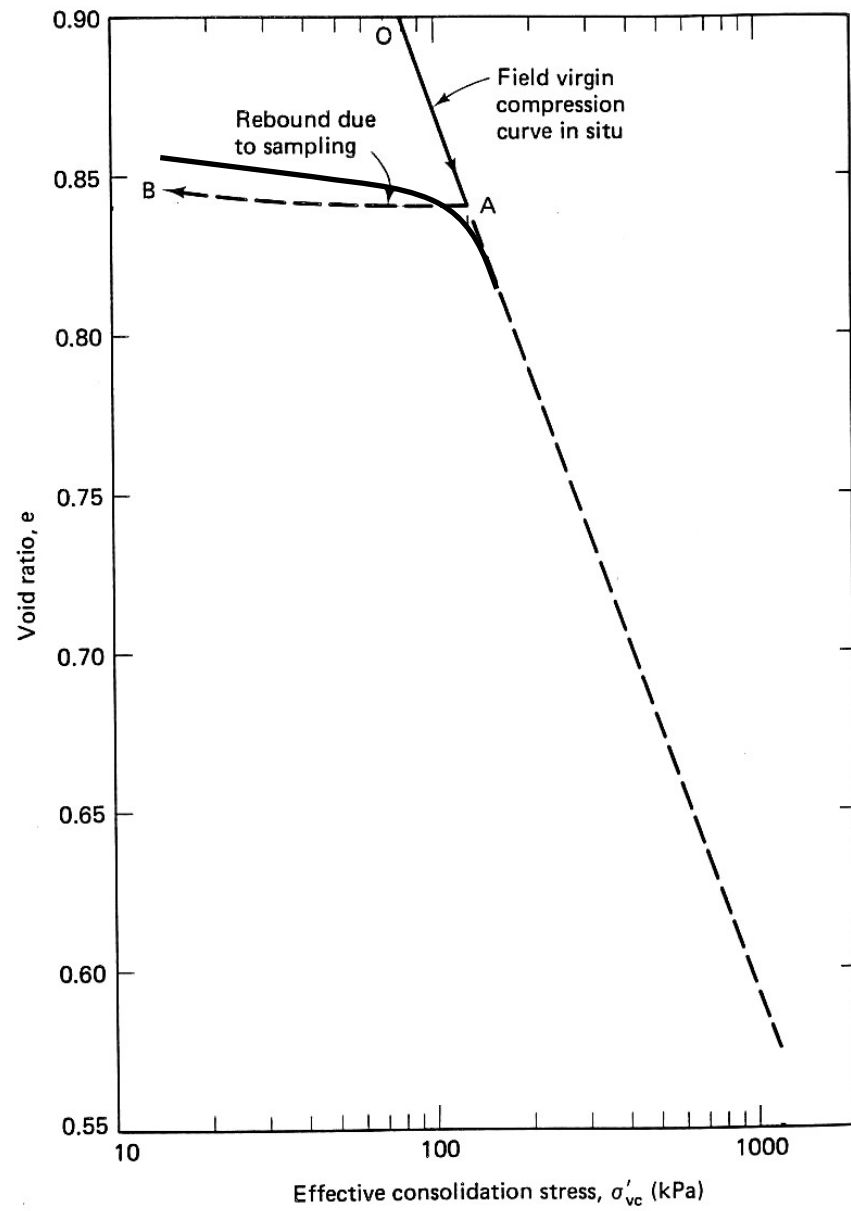




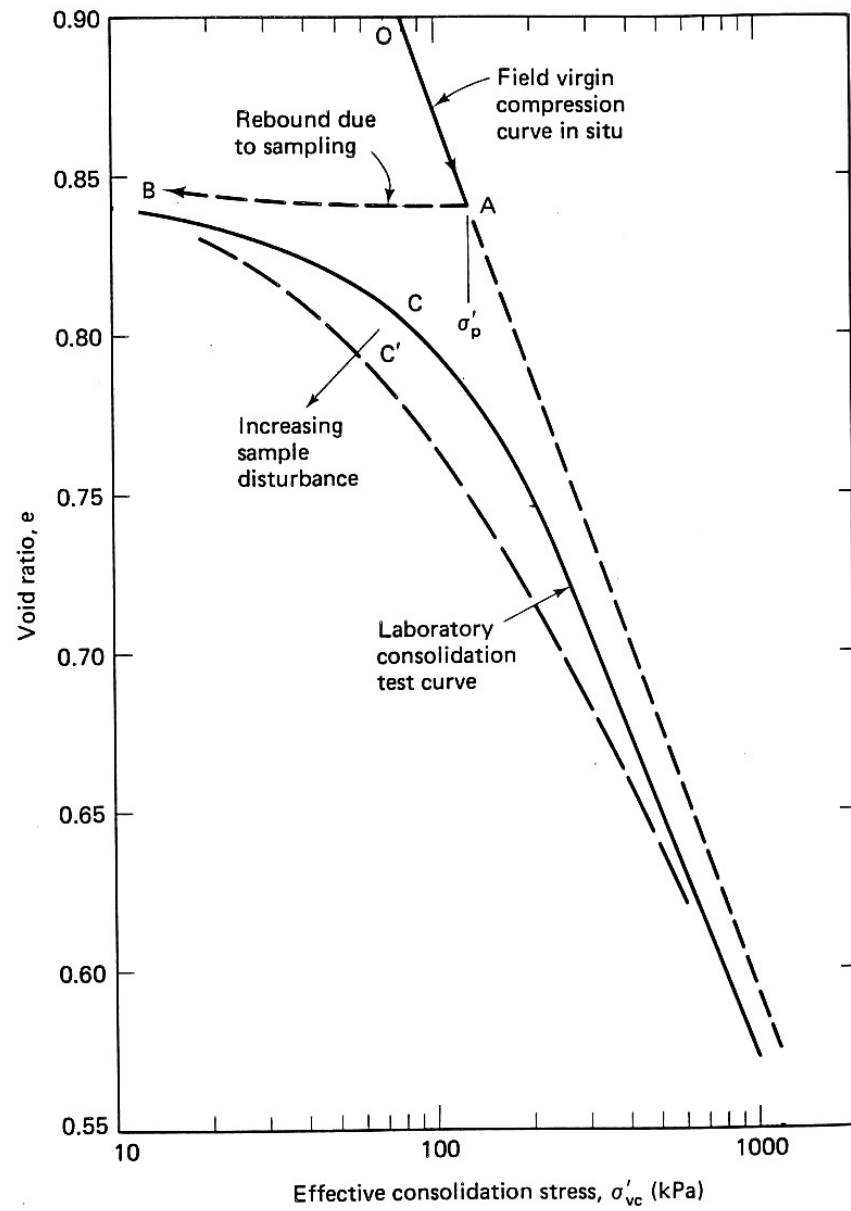
(Holtz & Kovacs, *An Introduction to Geotechnical Engineering*, 1981)



(Holtz & Kovacs, *An Introduction to Geotechnical Engineering*, 1981)



(Holtz & Kovacs, *An Introduction to Geotechnical Engineering*, 1981)



(Holtz & Kovacs, *An Introduction to Geotechnical Engineering*, 1981)

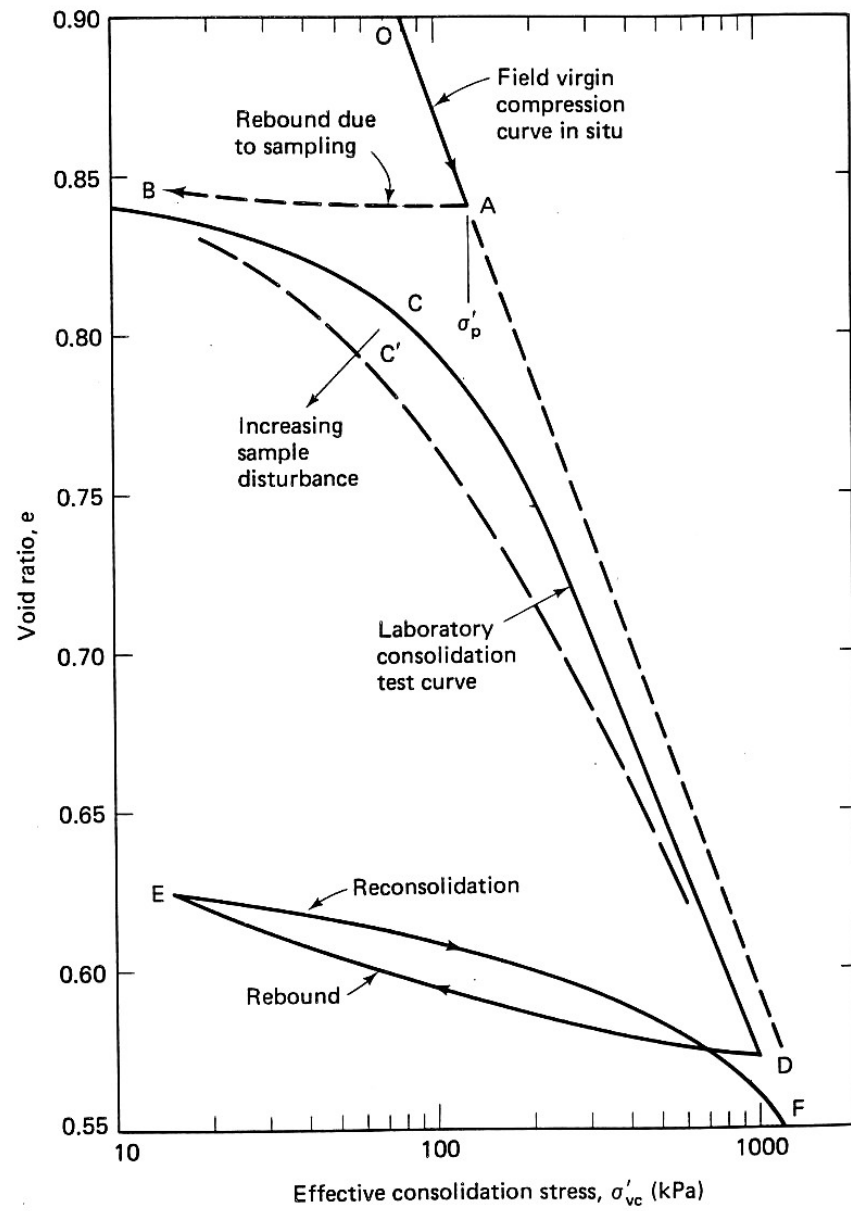
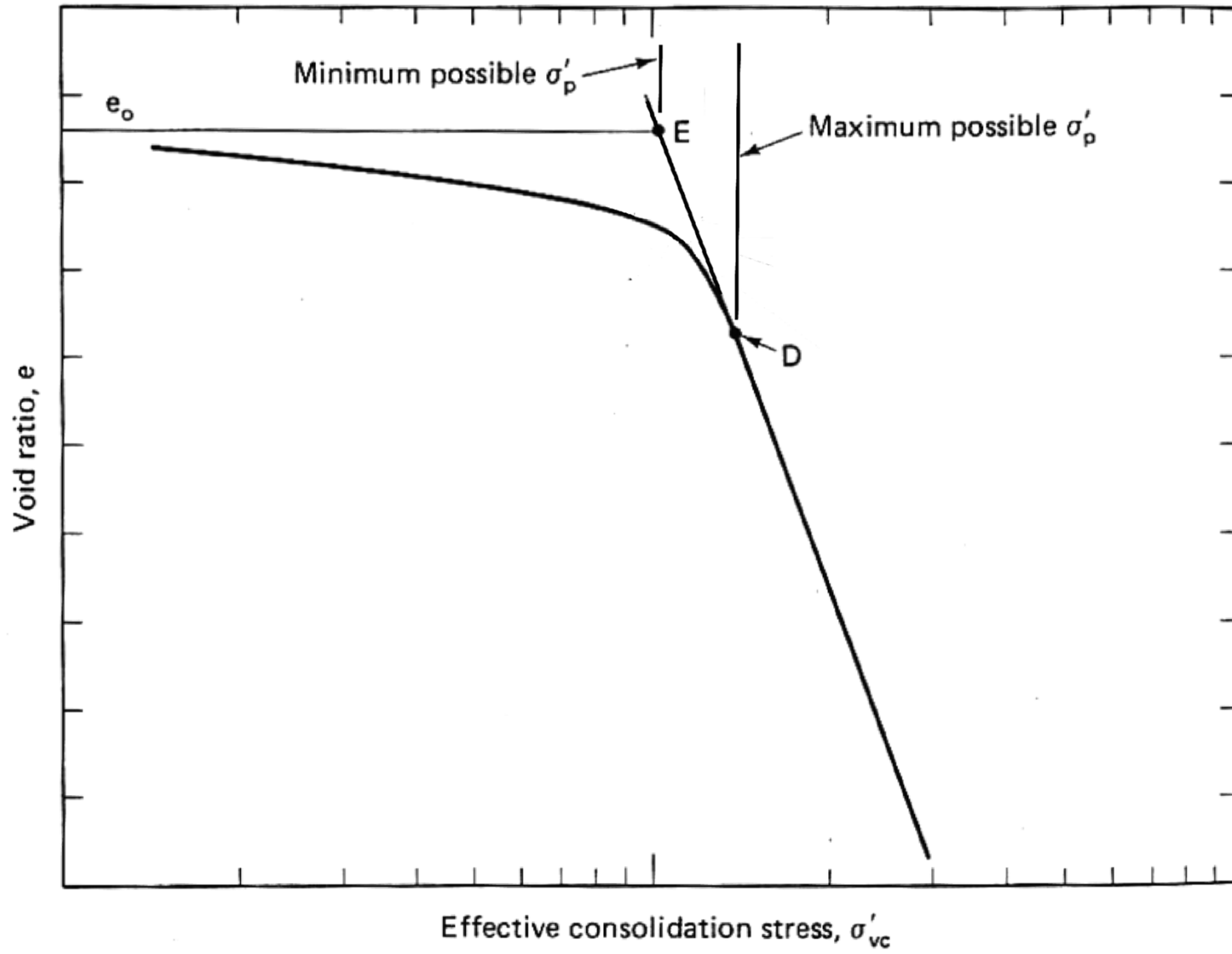
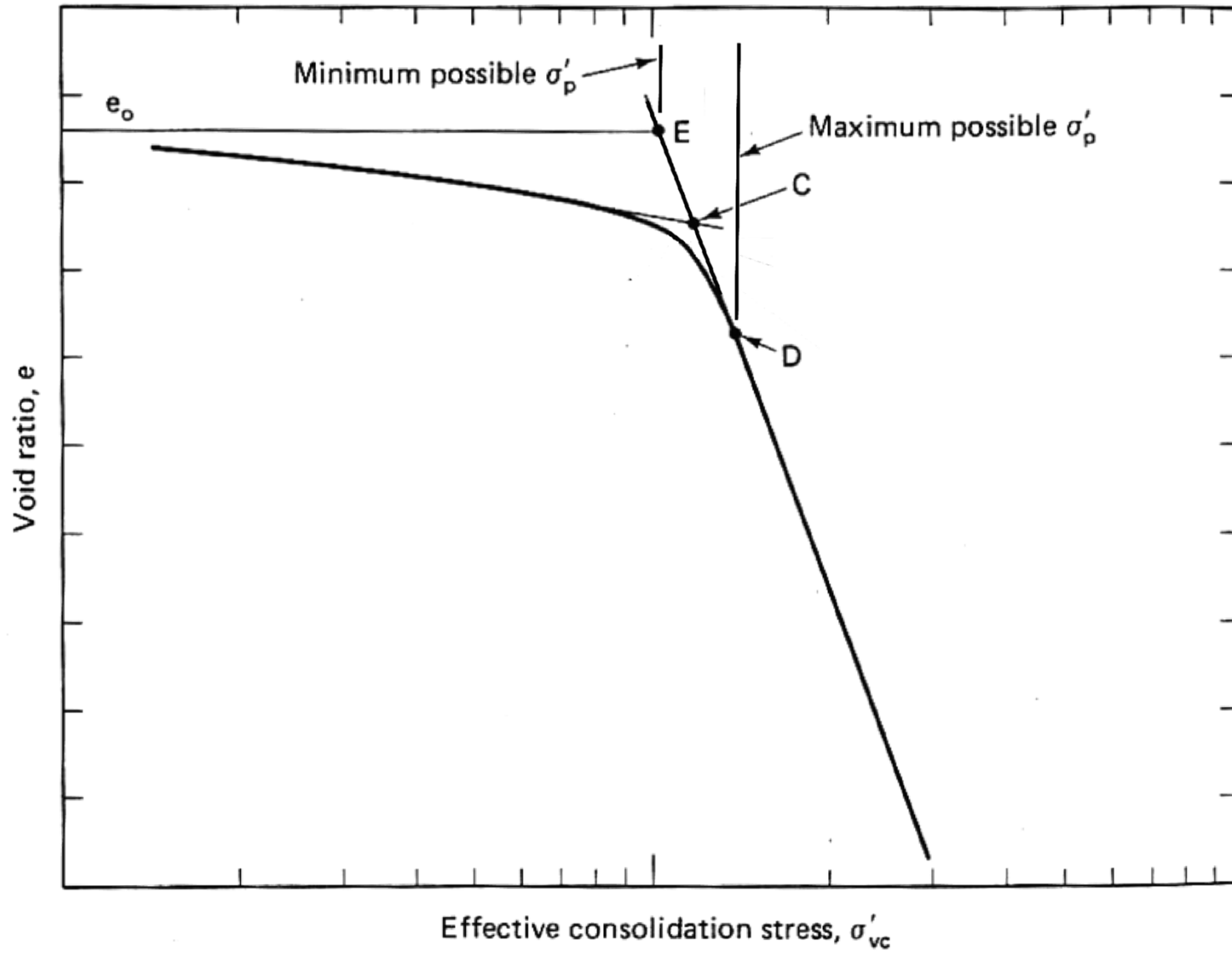


Figure 8.8

(Holtz & Kovacs, *An Introduction to Geotechnical Engineering*, 1981)

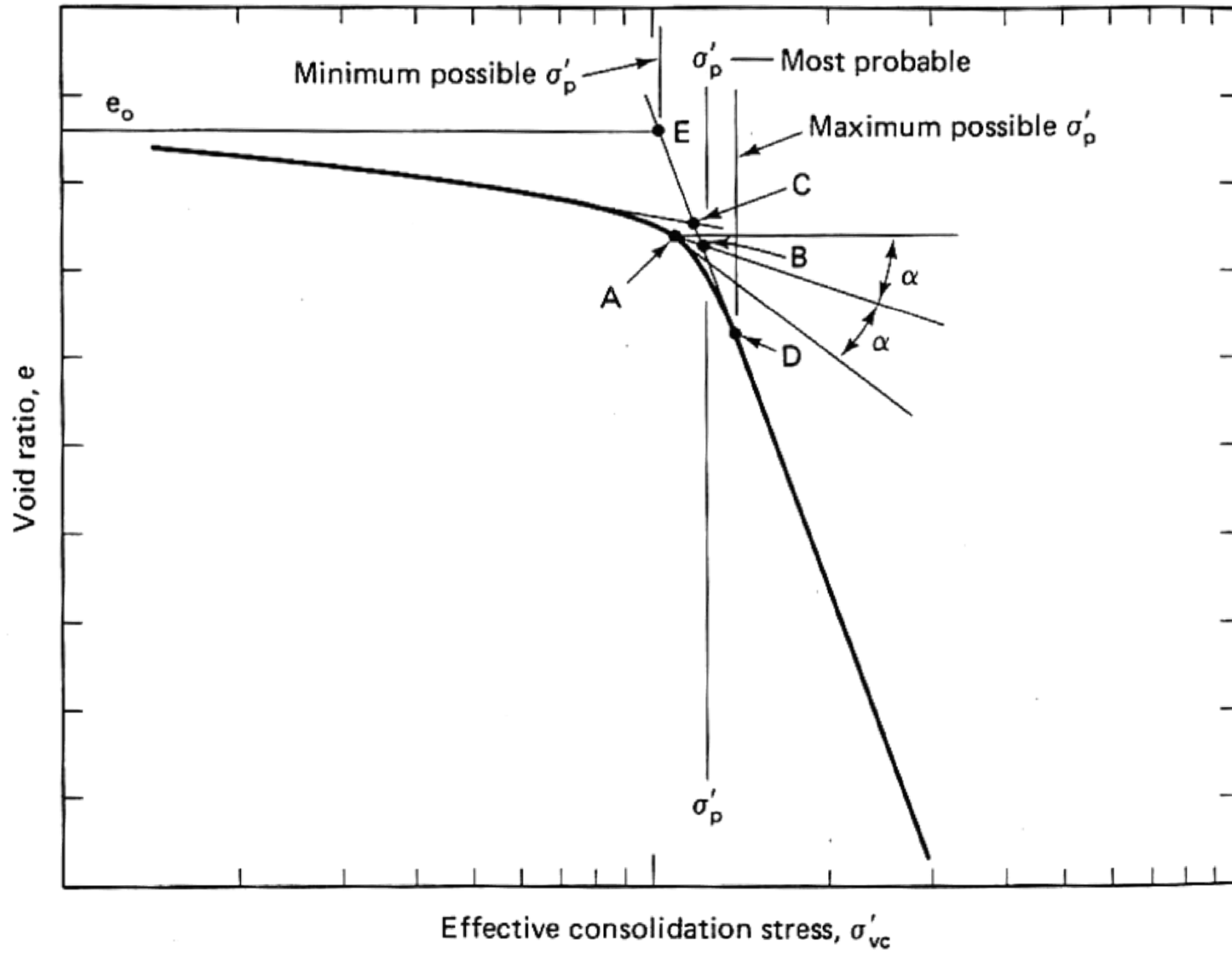


(Holtz & Kovacs, *An Introduction to Geotechnical Engineering*, 1981)



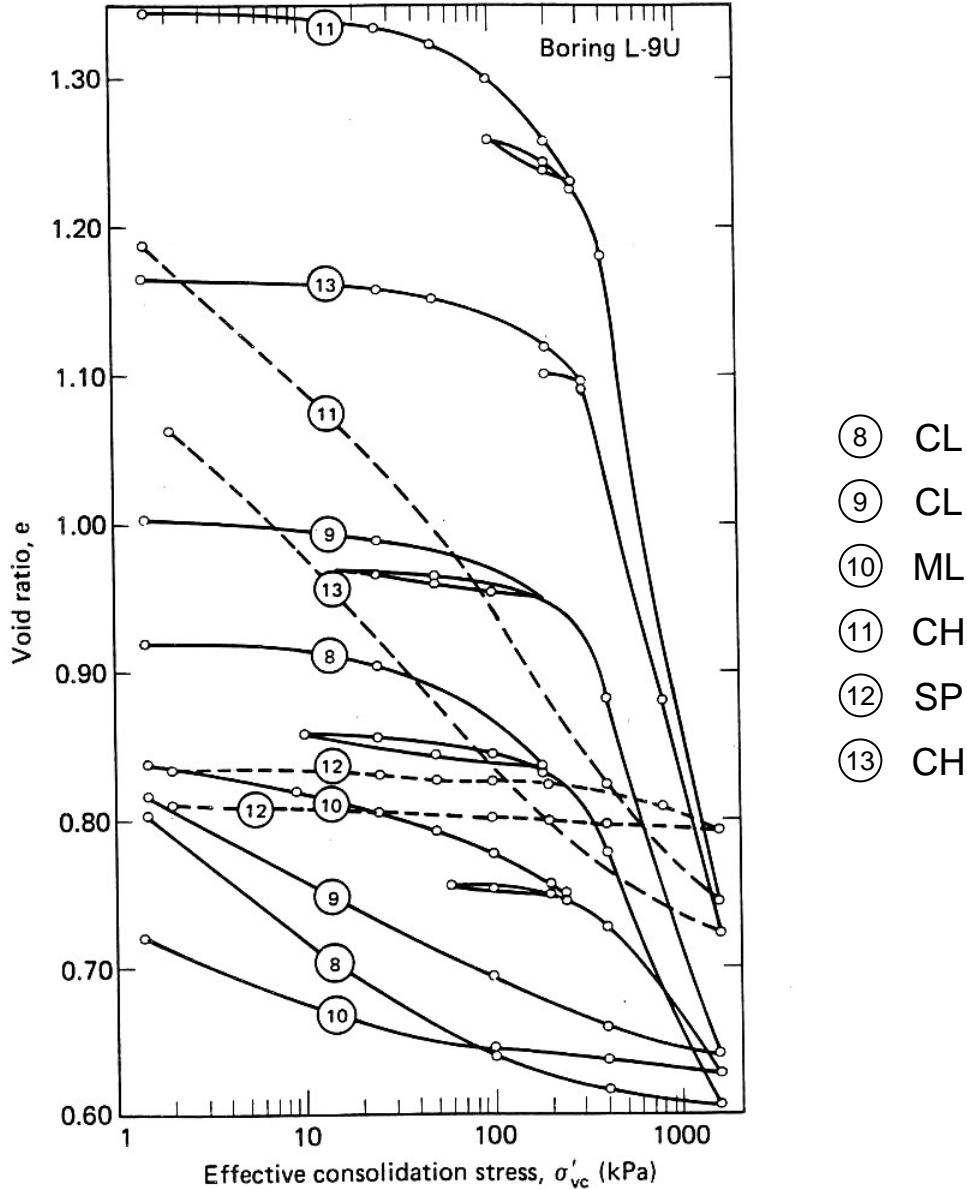
(Holtz & Kovacs, *An Introduction to Geotechnical Engineering*, 1981)

Figure 8.6



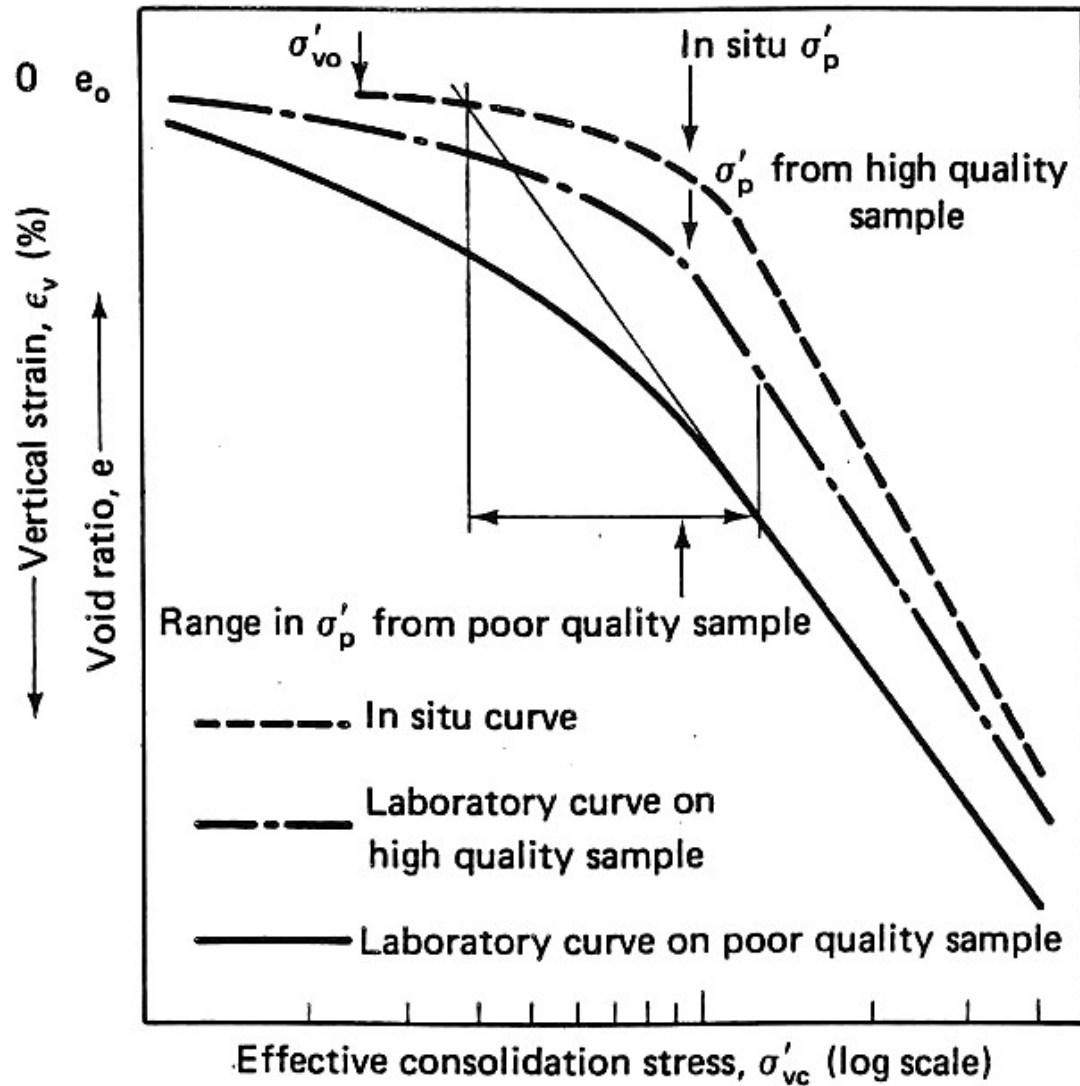
(Holtz & Kovacs, *An Introduction to Geotechnical Engineering*, 1981)

Figure 8.9a



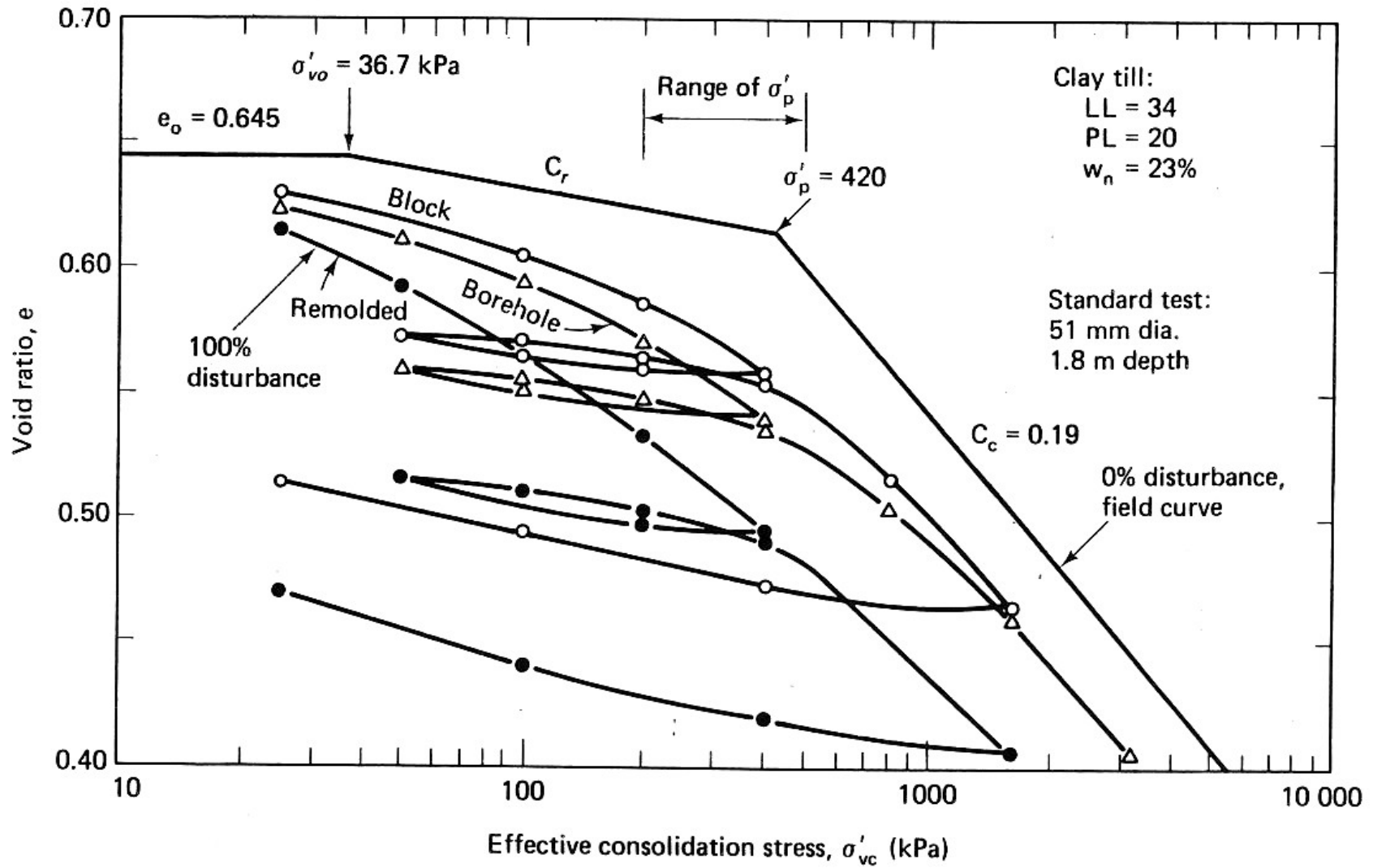
(Holtz & Kovacs, *An Introduction to Geotechnical Engineering*, 1981)

Figure 8.15a



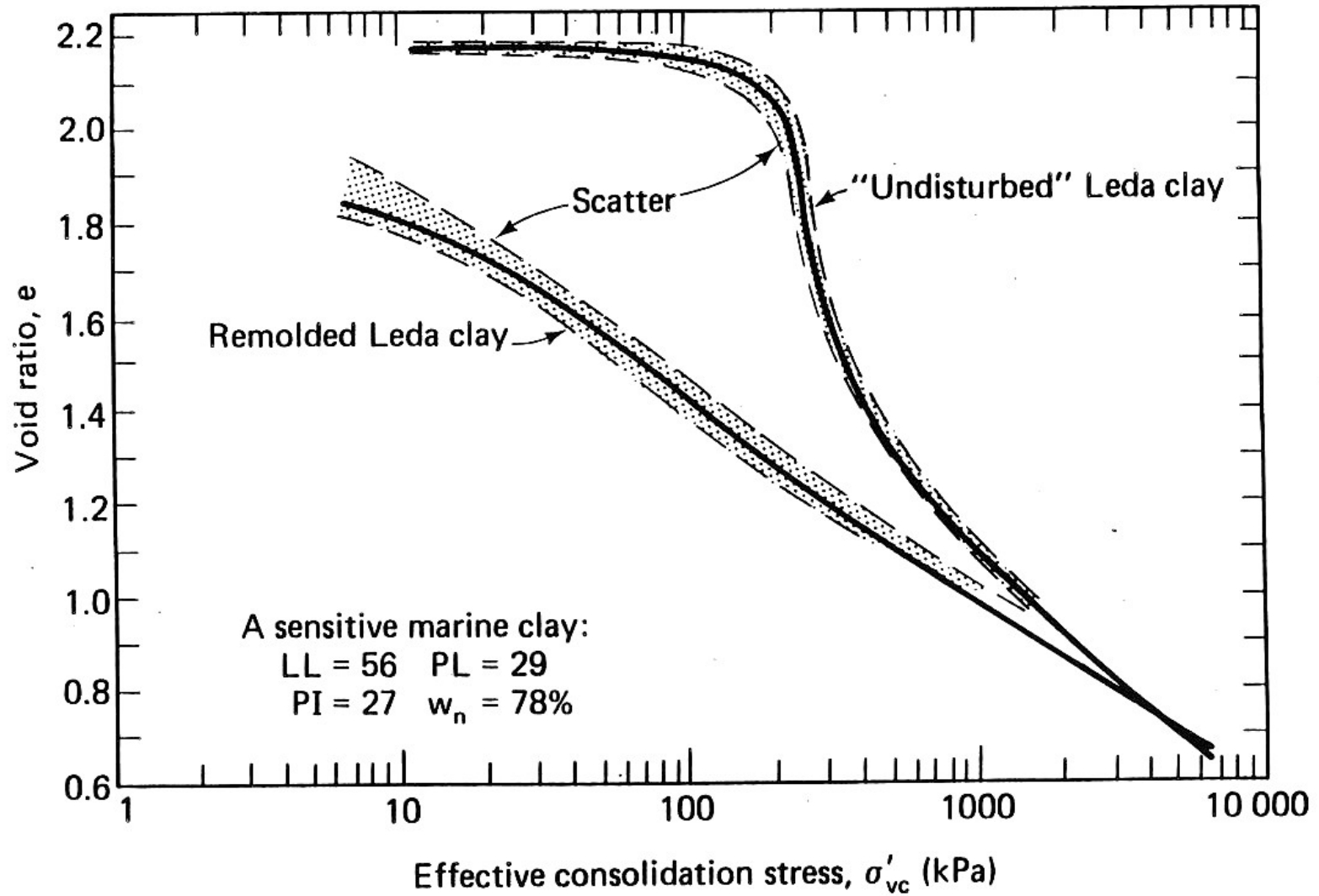
(Holtz & Kovacs, *An Introduction to Geotechnical Engineering*, 1981)

Figure 8.9c



(Holtz & Kovacs, *An Introduction to Geotechnical Engineering*, 1981)

Figure 8.9d



(Holtz & Kovacs, *An Introduction to Geotechnical Engineering*, 1981)

Figure 8.9h

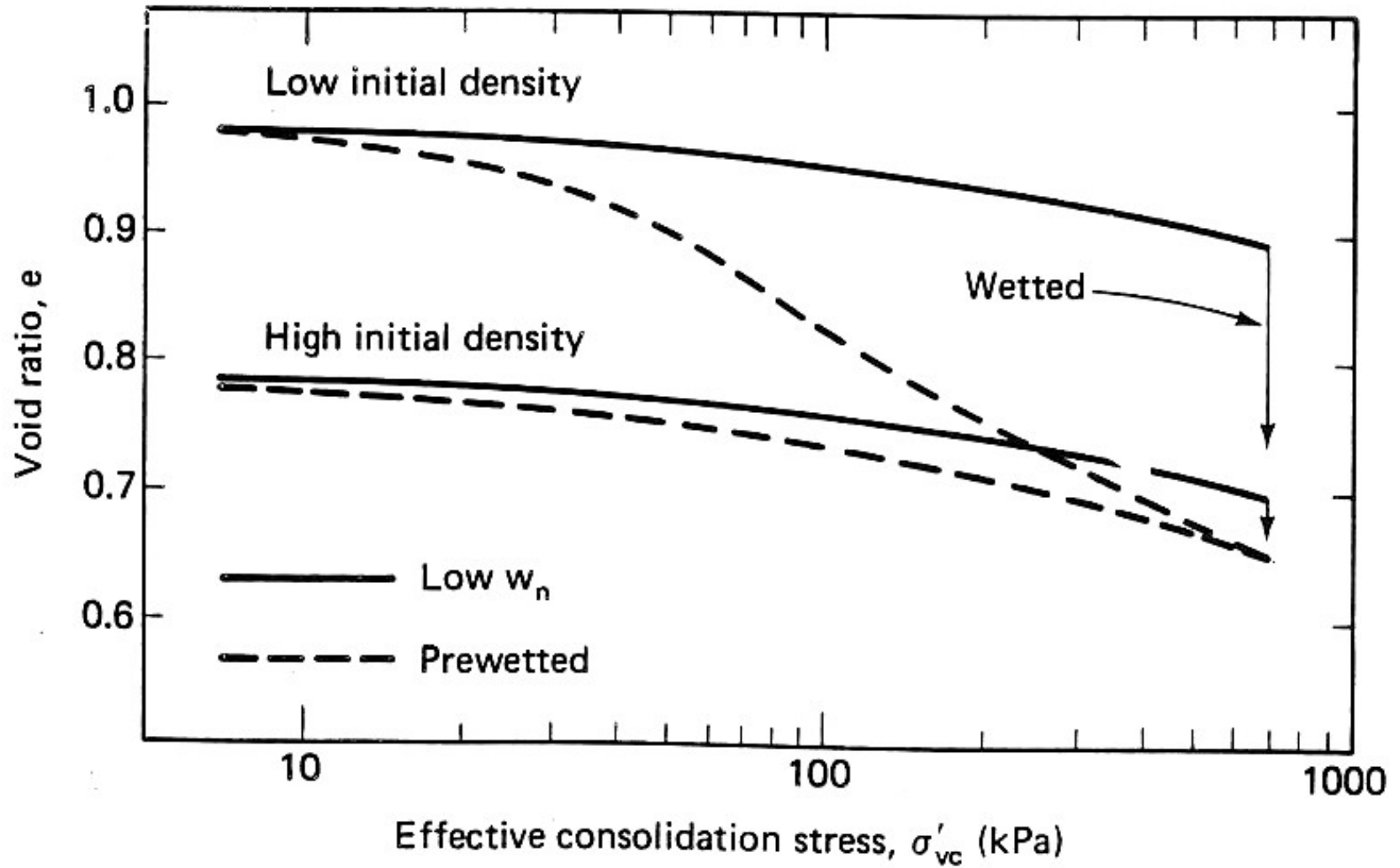
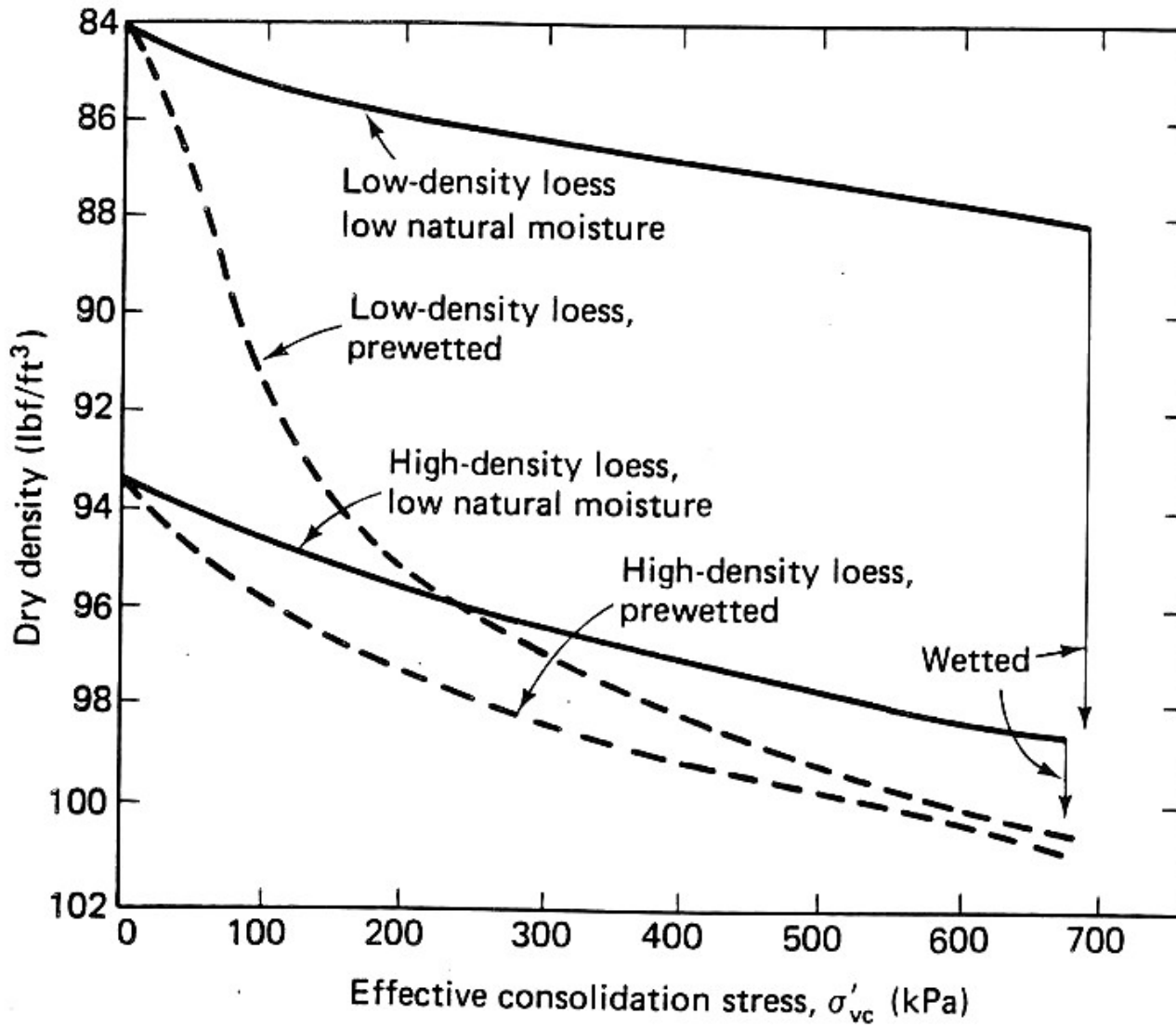


Figure 8.9h



(Holtz & Kovacs, *An Introduction to Geotechnical Engineering*, 1981)