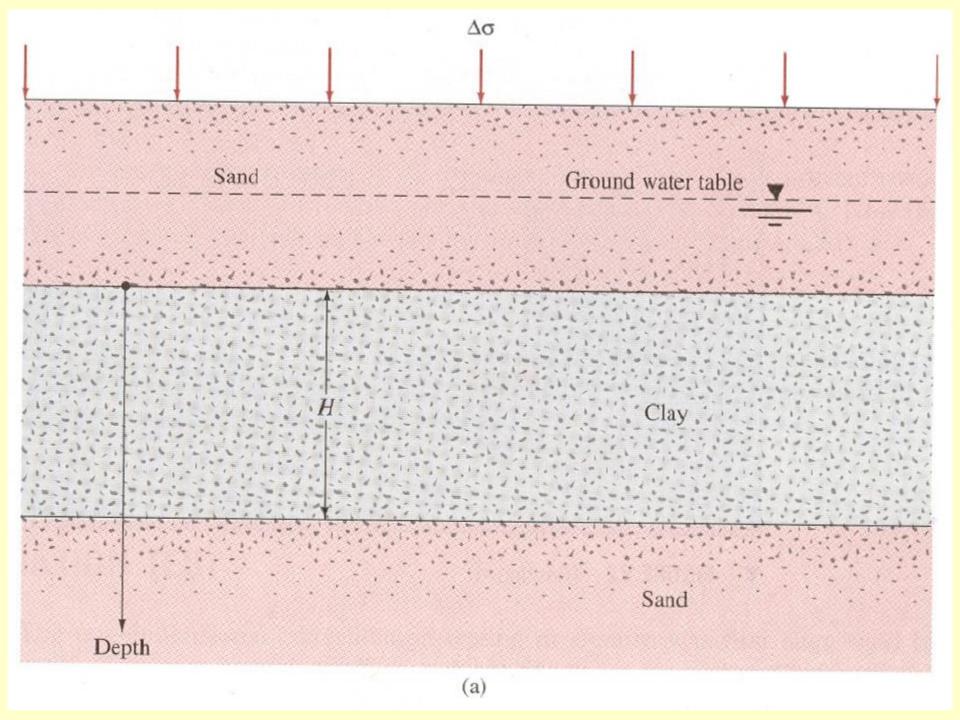
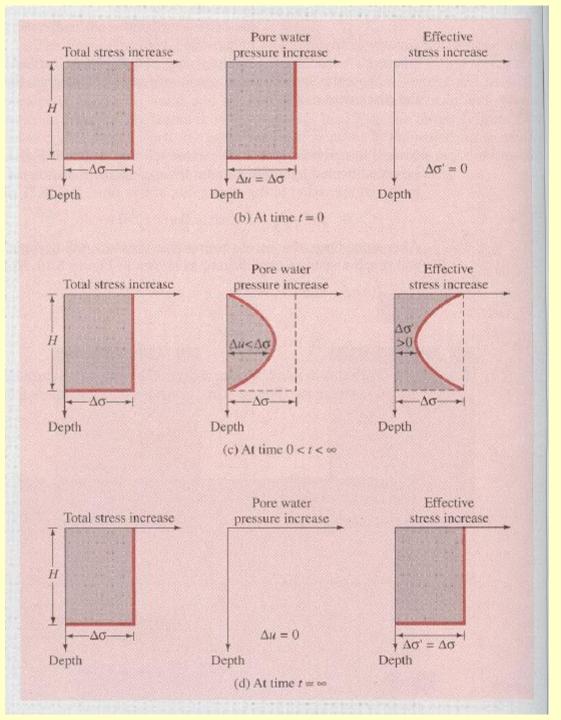
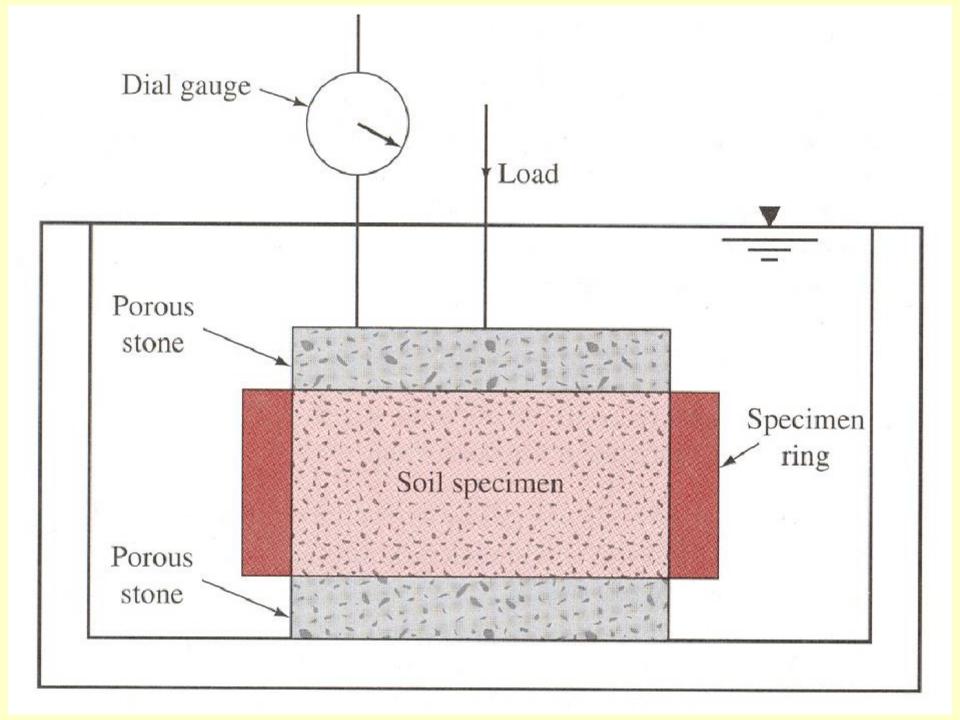
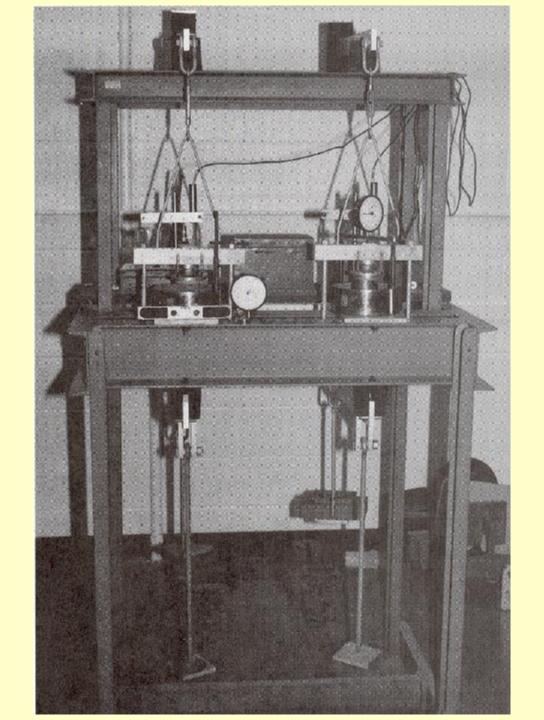
Compressibility of Soil

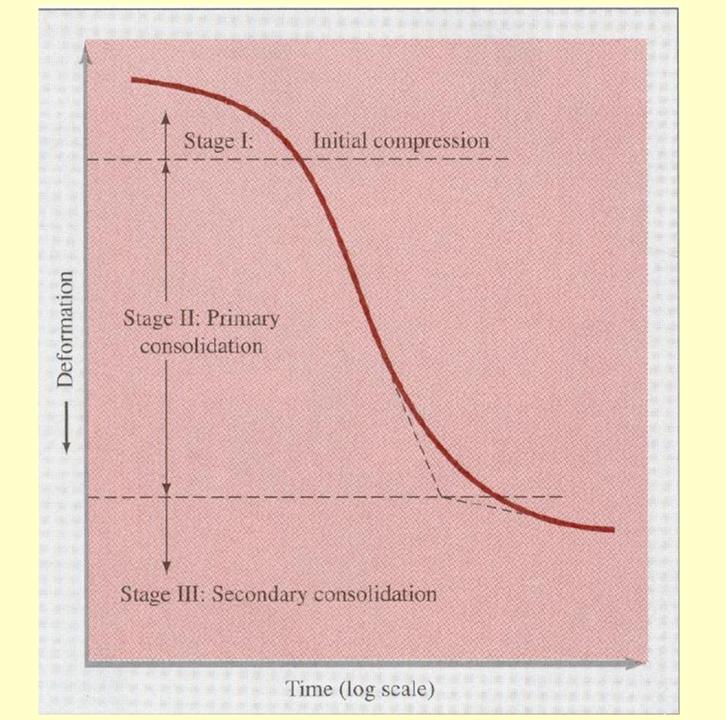
CONSOLIDATION & ELASTIC SETTLEMENT











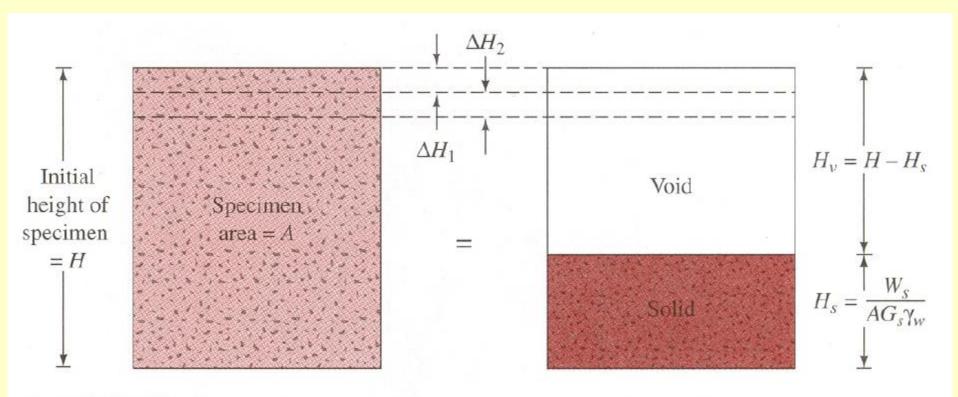


FIGURE 8.5 Change of height of specimen in one-dimensional consolidation test

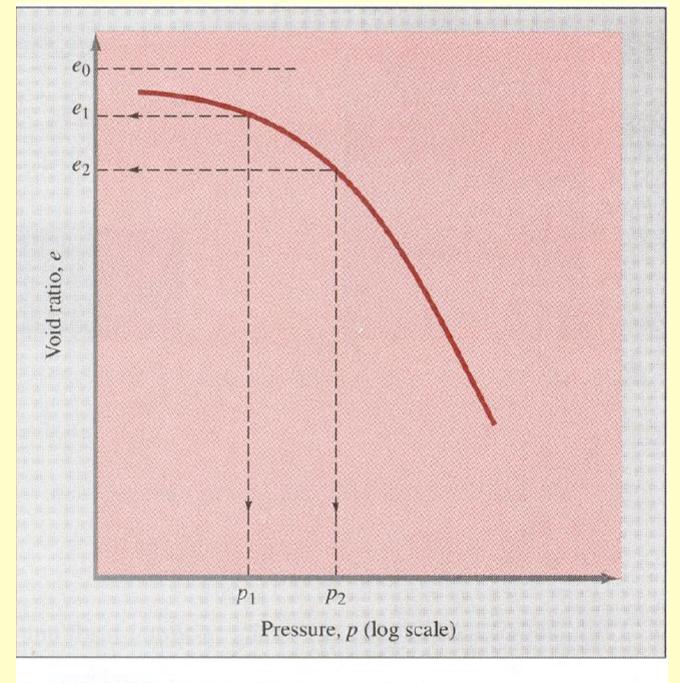


FIGURE 8.6 Typical plot of e against log p

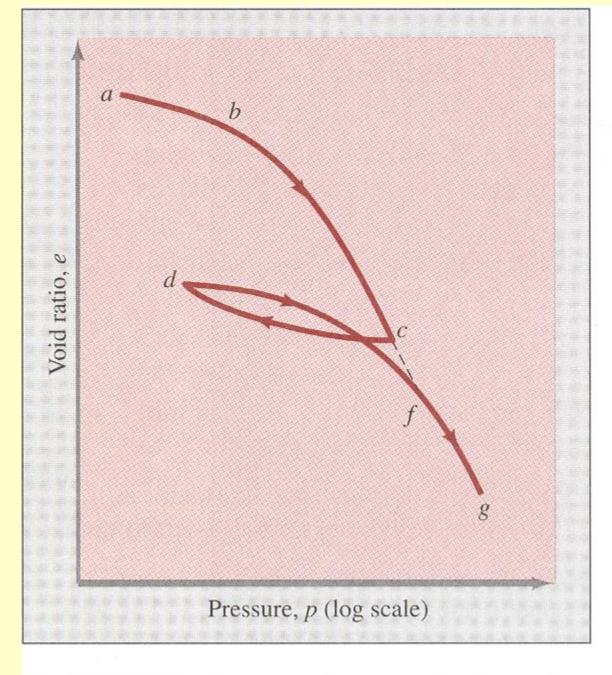


FIGURE 8.7 Plot of *e* against log *p* showing loading, unloading, and reloading branches

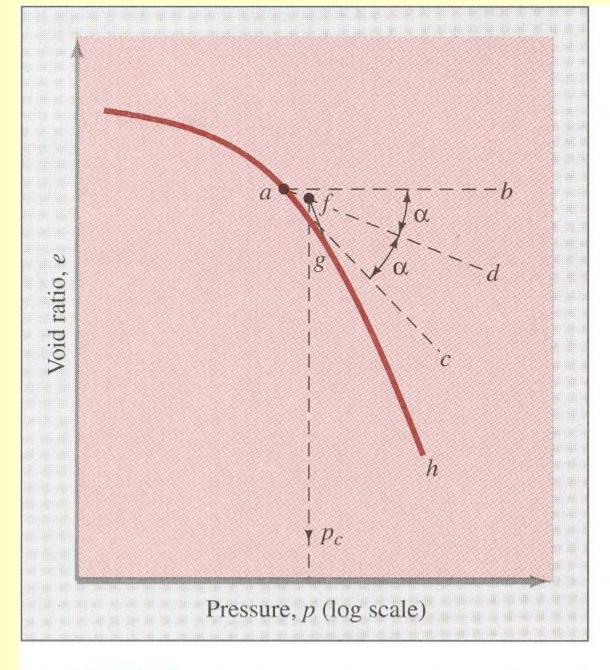


FIGURE 8.8 Graphic procedure for determining preconsolidation pressure

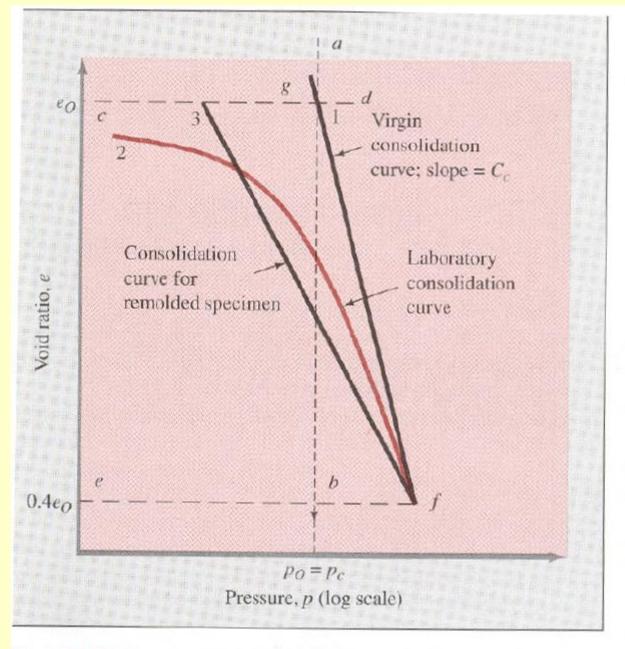


FIGURE 8.9 Consolidation characteristics of normally consolidated clay of low to medium sensitivity

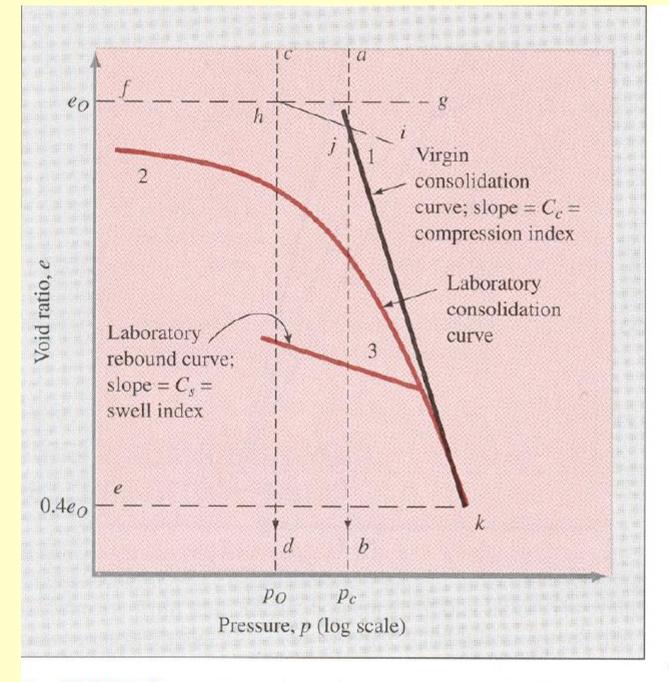


FIGURE 8.10 Consolidation characteristics of overconsolidated clay of low to medium sensitivity

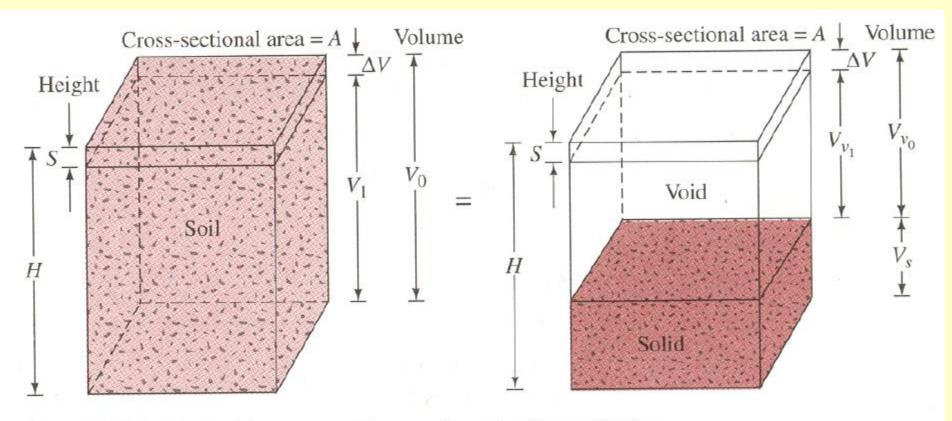
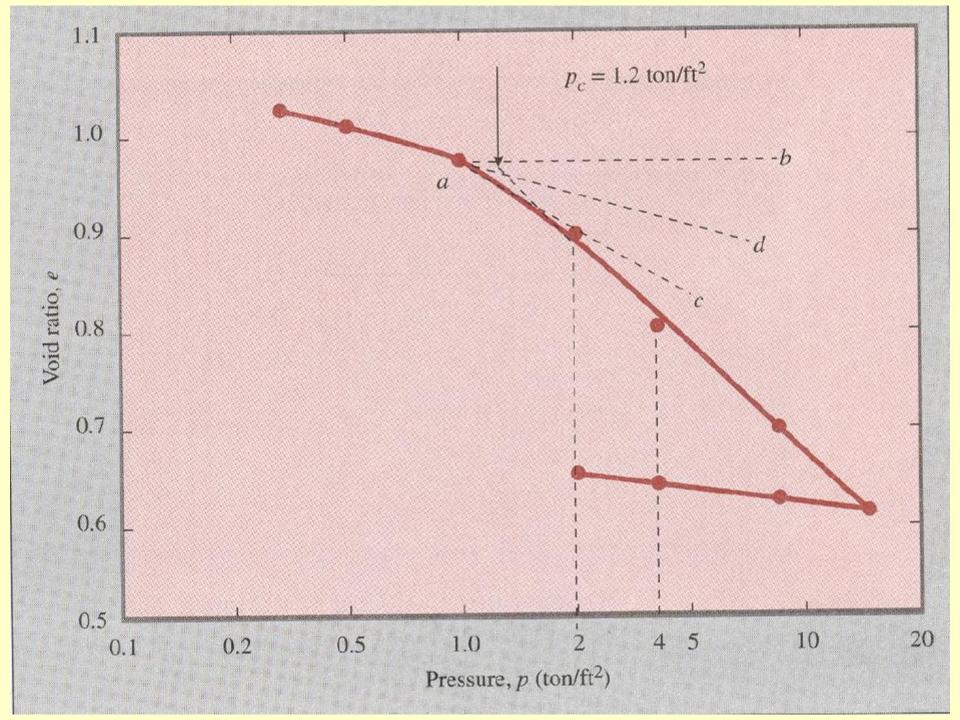


FIGURE 8.14 Settlement caused by one-dimensional consolidation



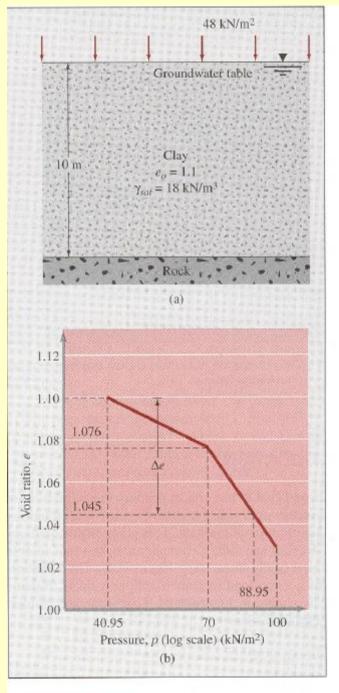
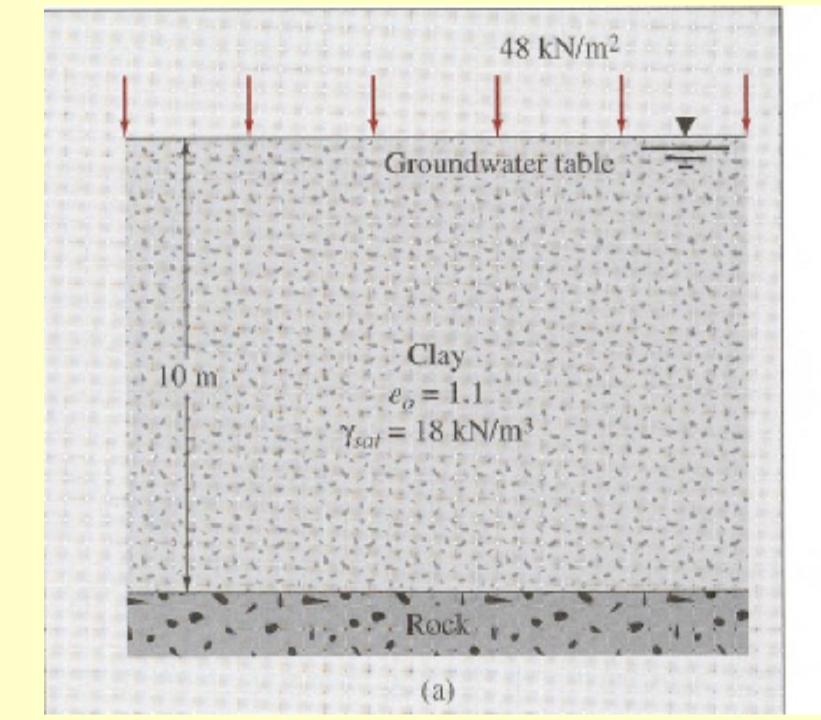
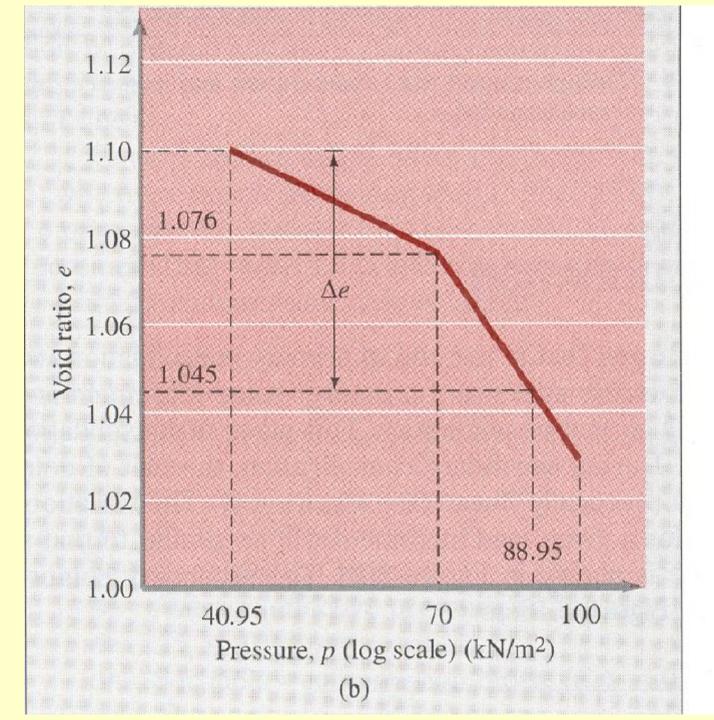
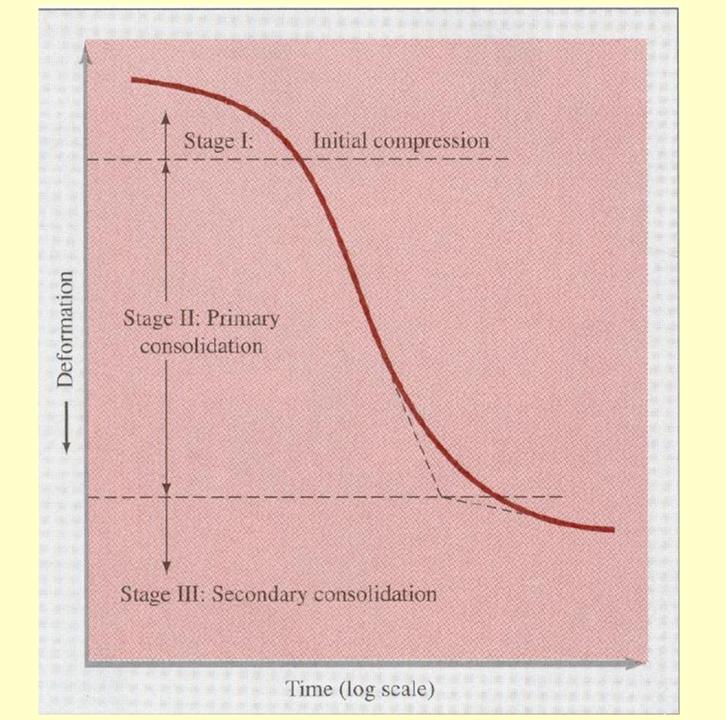


FIGURE 8.17 (a) Soil profile; (b) field consolidation curve







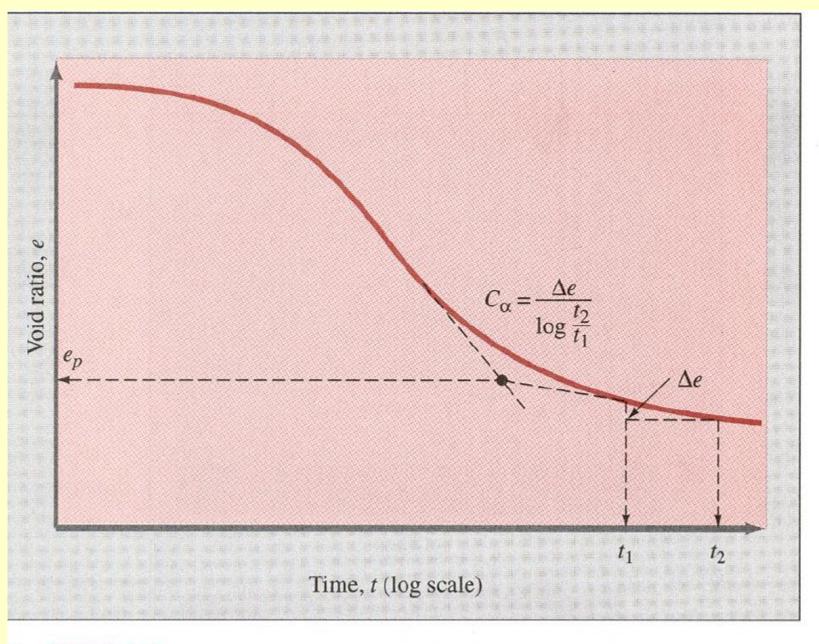
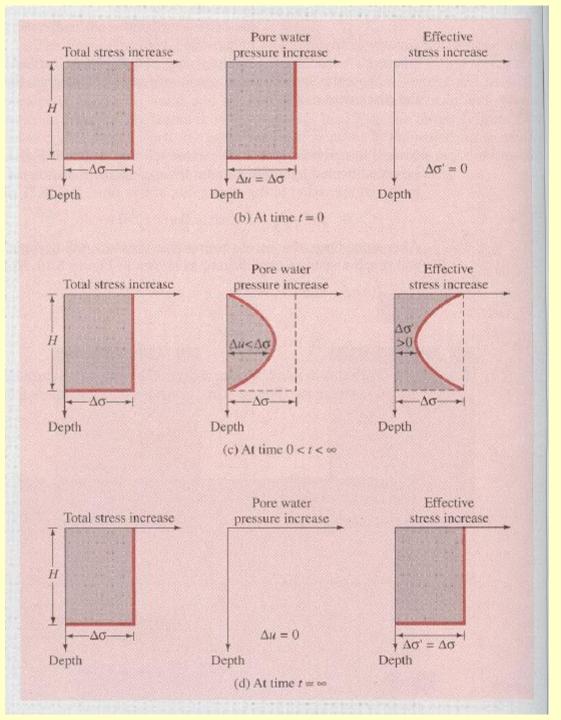
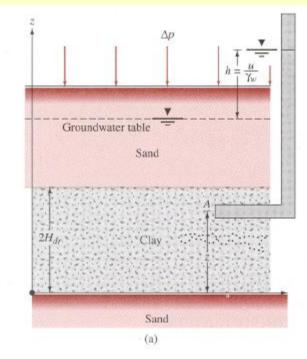


FIGURE 8.18 Variation of e with log t under a given load increment, and definition of secondary consolidation index





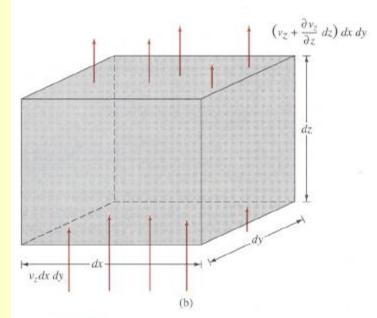
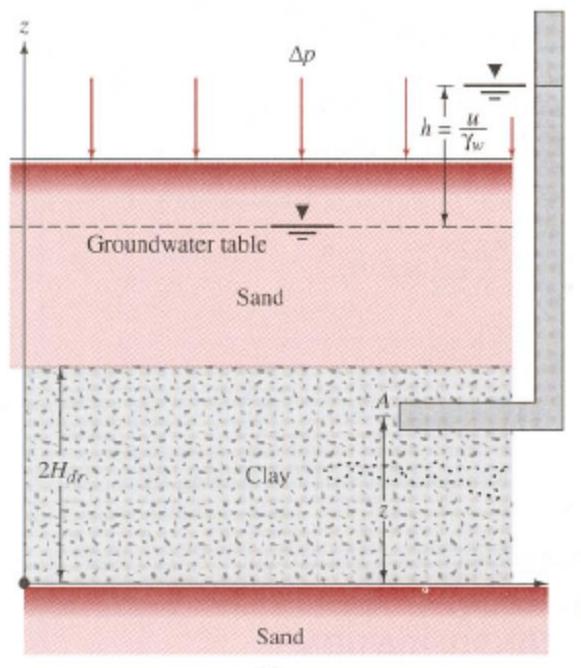
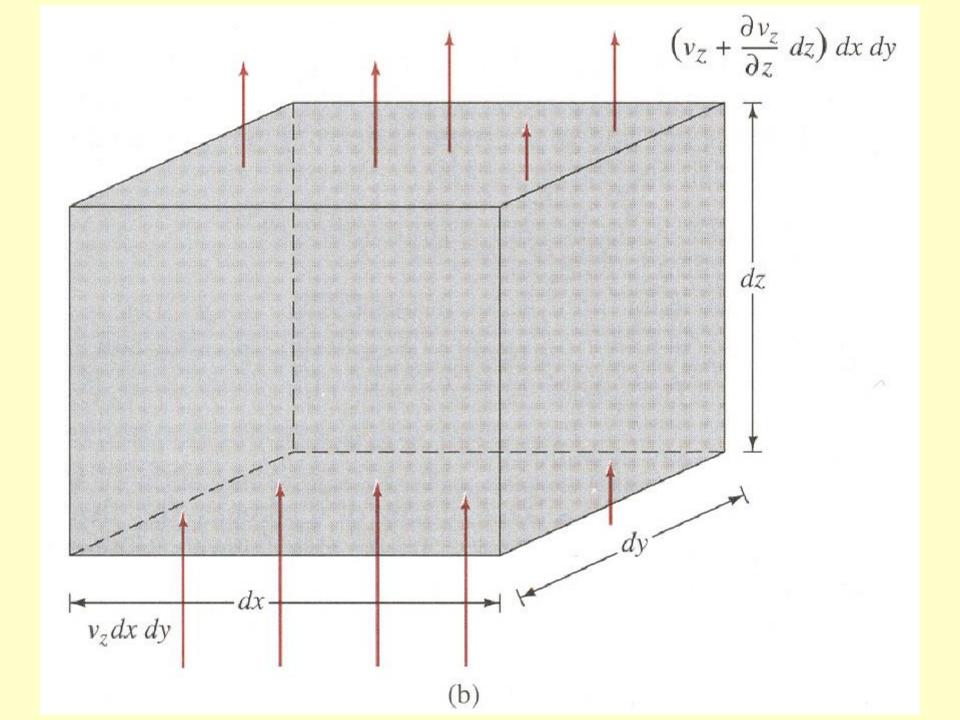
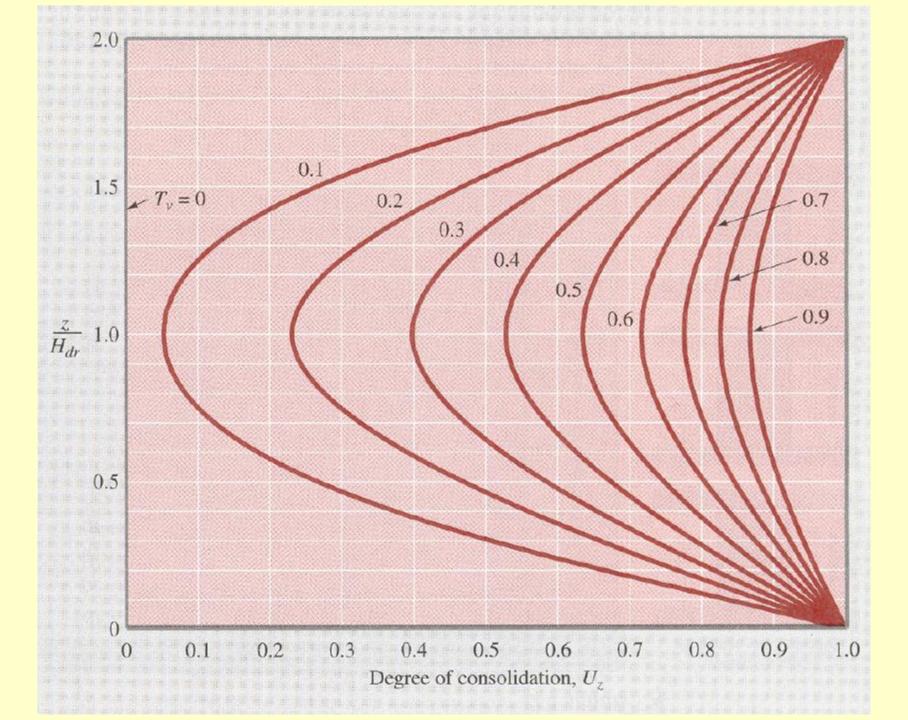


FIGURE 8.20 (a) Clay layer undergoing consolidation; (b) flow of water at A during consolidation







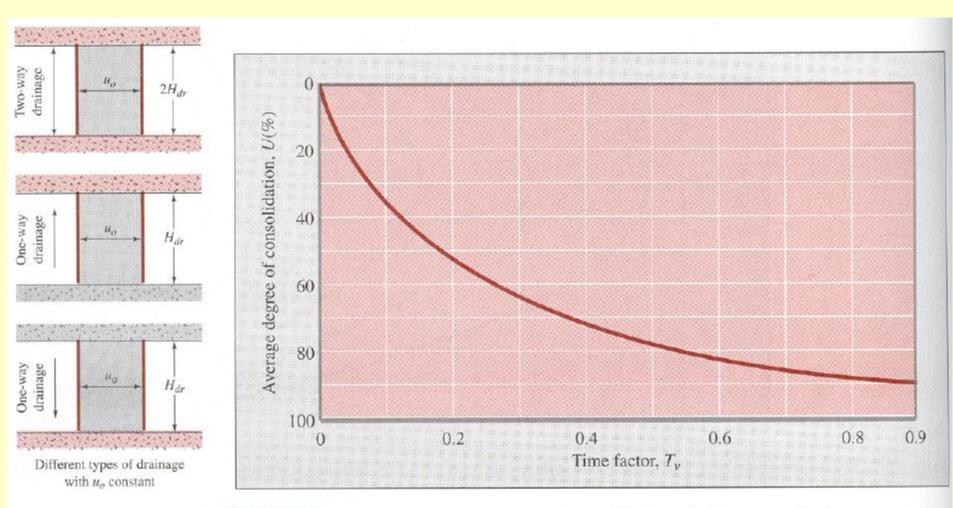
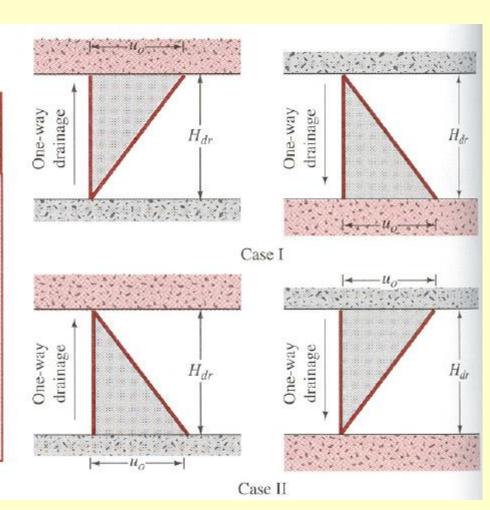


FIGURE 8.22 Variation of average degree of consolidation with time factor, T_v (u_O constant with depth)

0 0 51 0.204 1 0.00008 52 0.212 2 0.0003 53 0.221 3 0.00071 54 0.230 4 0.00126 55 0.239 5 0.00196 56 0.248 6 0.00283 57 0.257 7 0.00385 58 0.267 8 0.00502 59 0.276 8 0.00502 59 0.276 10 0.00785 61 0.297 11 0.0095 62 0.307 12 0.0113 63 0.318 13 0.0133 64 0.329 14 0.0154 65 0.304 15 0.0177 66 0.352 16 0.0227 68 0.377 18 0.0227 68 0.377 18 0.0227 68 0.377 19 0.0228 70 0.403 20 0.0314 71 0.417 21 0.0346 72 0.431 22 0.0380 73 0.446 23 0.0415 74 0.461 24 0.0452 75 0.477 25 0.0491 76 0.493 26 0.0531 77 0.511 27 0.0572 78 0.529 28 0.0615 79 0.547 29 0.0660 80 0.567 30 0.0707 81 0.588 31 0.0754 82 0.610 32 0.0803 83 0.633 33 0.0855 84 0.658 34 0.0907 85 0.684 35 0.0962 86 0.712 26 0.102 87 0.742 37 0.107 88 0.774 38 0.113 89 0.809 39 0.119 90 0.848 40 0.126 91 0.891 41 0.132 92 0.938 42 0.138 93 0.993 43 0.145 94 1.055 44 0.152 95 1.129 45 0.188 100 ∞	U (%)	T,	U (%)	Т,
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	49	0.188		
	50			

TABLE 8.4 Variation of Time Factor with Degree of Consolidation

Degree of	Time factor 7,		
consolidation U (%)	Case I	Case II	
0	0	0	
10	0.003	0.047	
20	0.009	0.100	
30	0.024	0.158	
40	0.048	0.221	
50	0.092	0.294	
60	0.160	0.383	
70	0.271	0.500	
80	0.440	0.665	
90	0.720	0.940	
100	00	00	



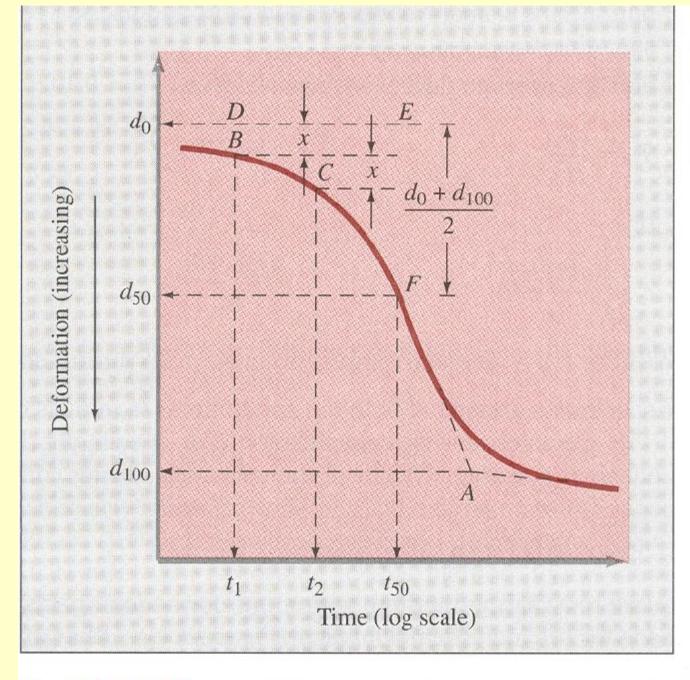


FIGURE 8.23 Logarithm-of-time method for determining coefficient of consolidation