



flow nets examples



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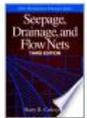
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0 Resenhas

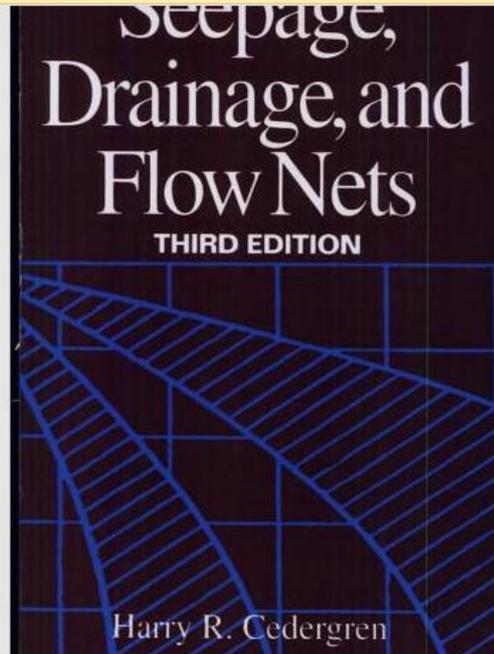
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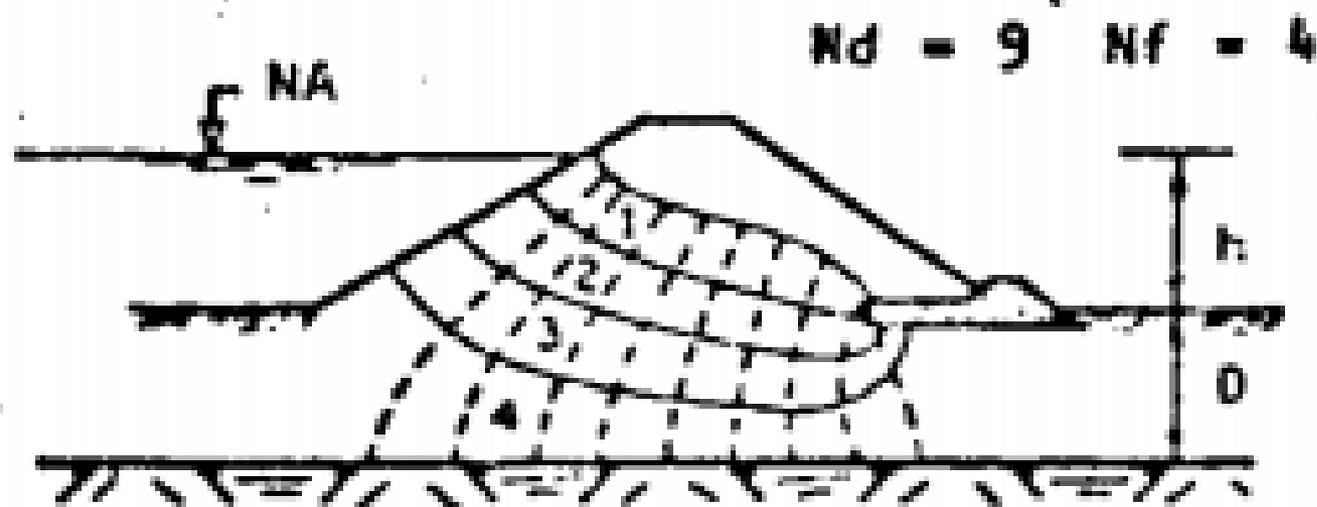
Seepage, Drainage, and Flow Nets

Por Harry R. Cedergren

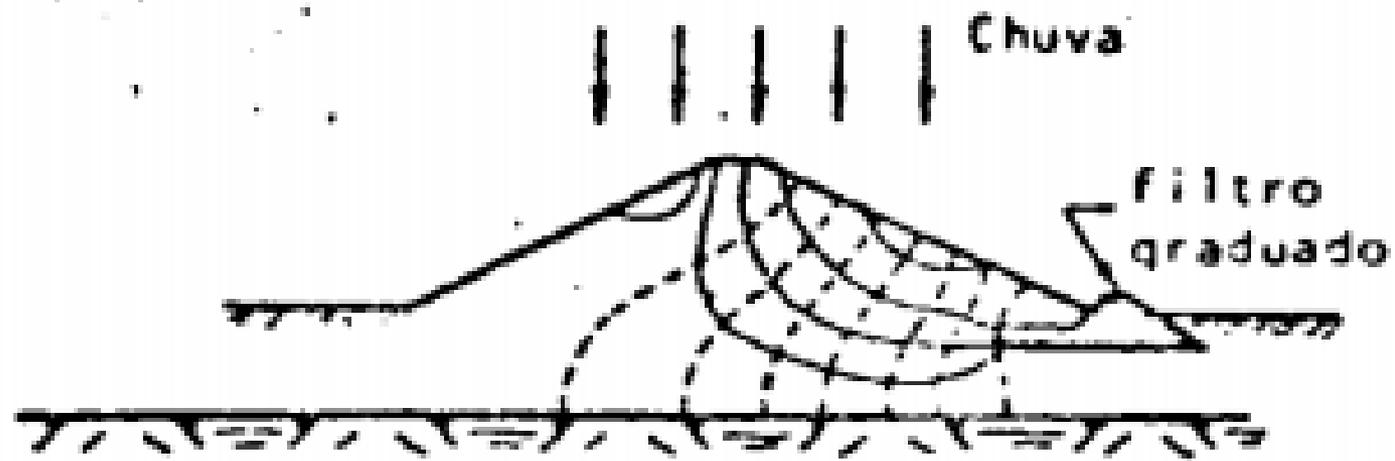
flow nets exampl...

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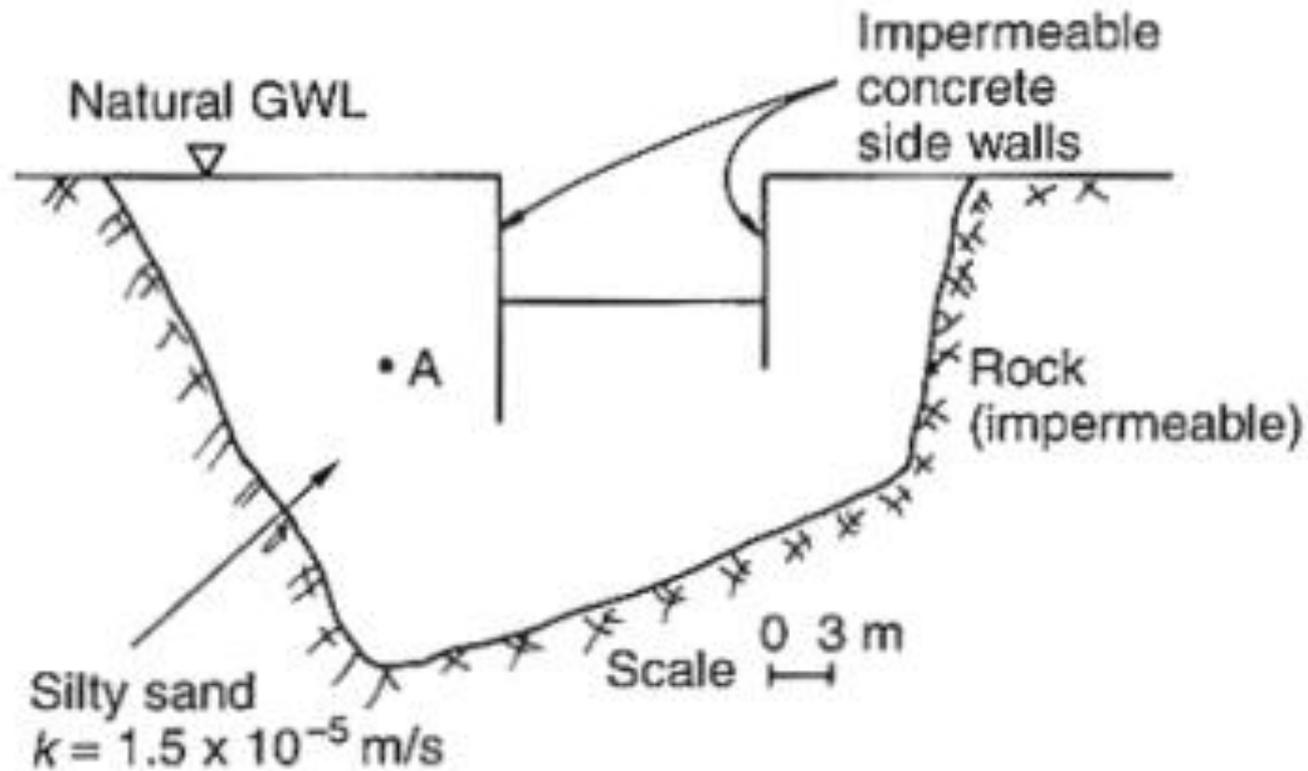




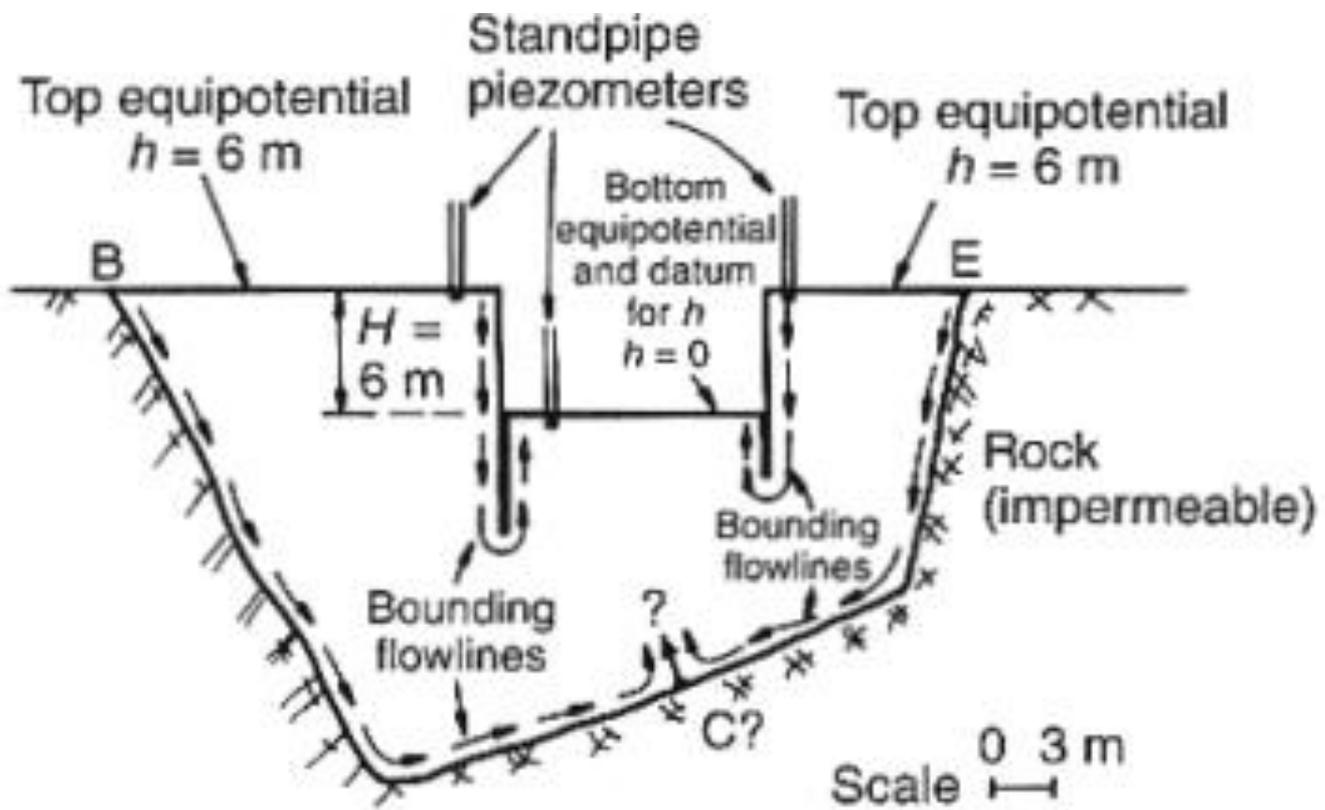
e) Barragem de Terra



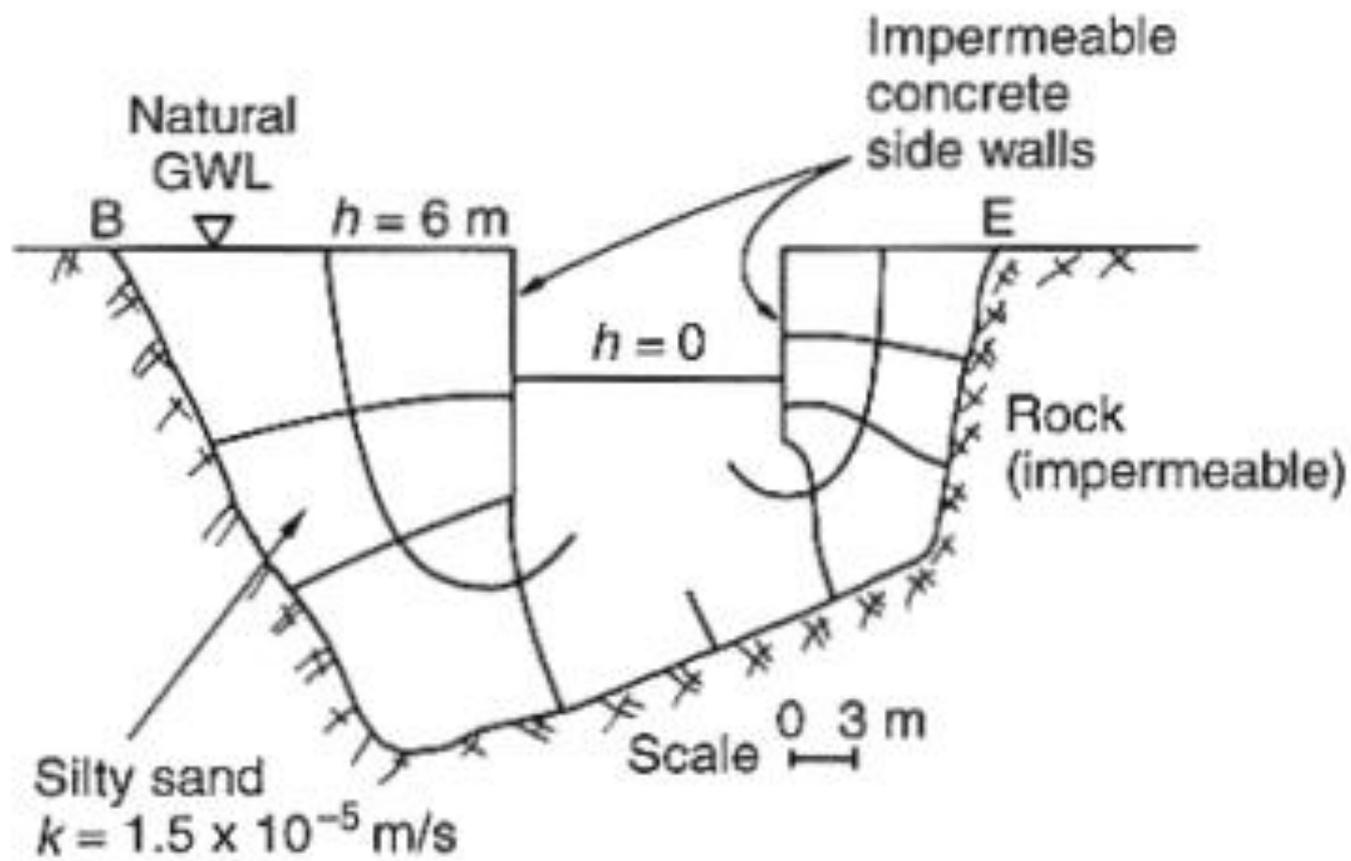
f) Parragem de Terra sob Chuvas Copiosas



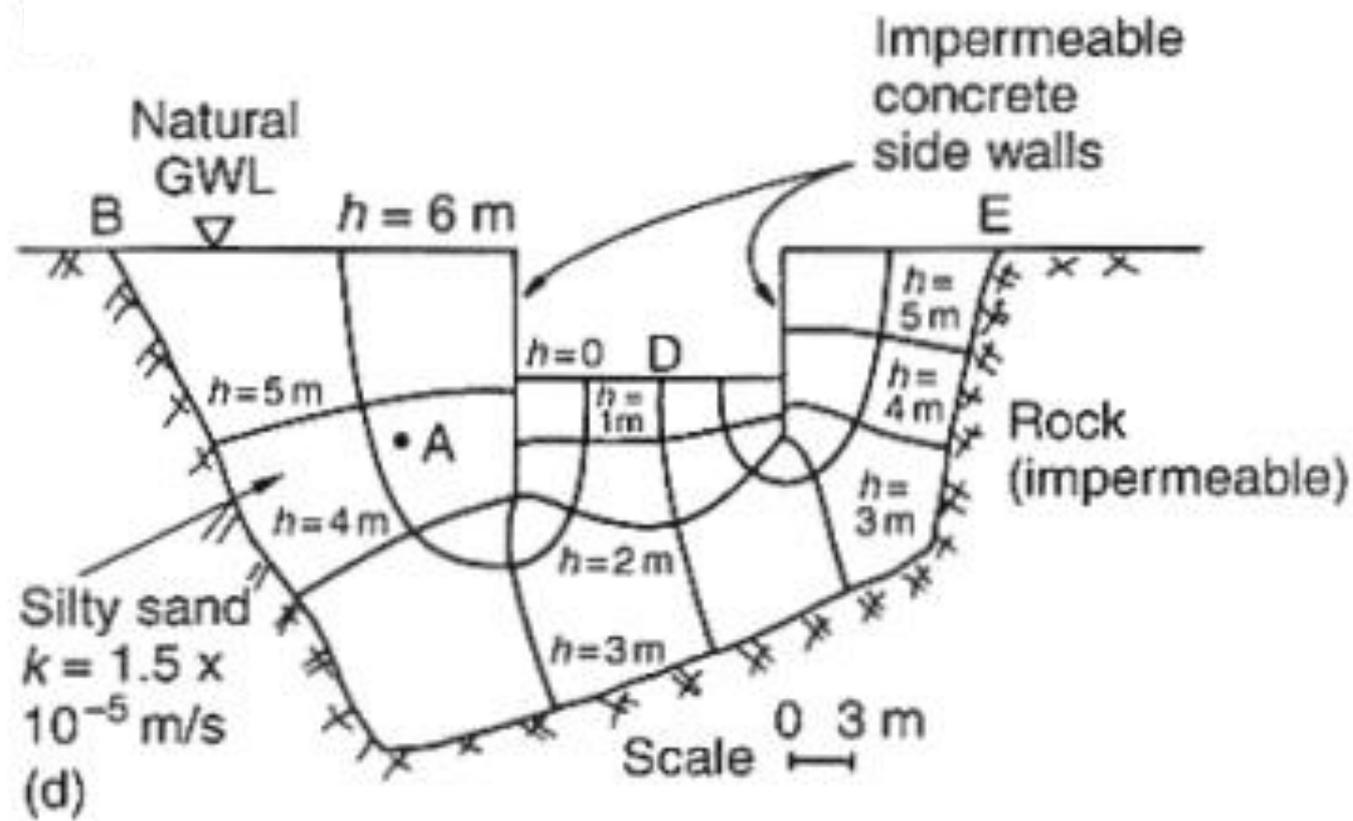
(a)



(b)

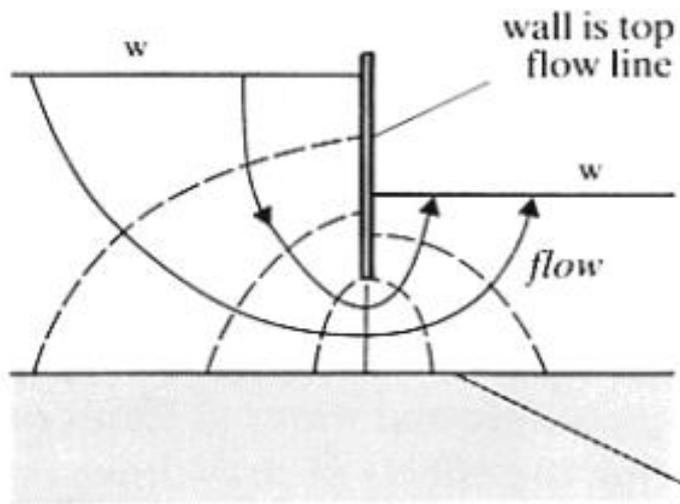


(c)



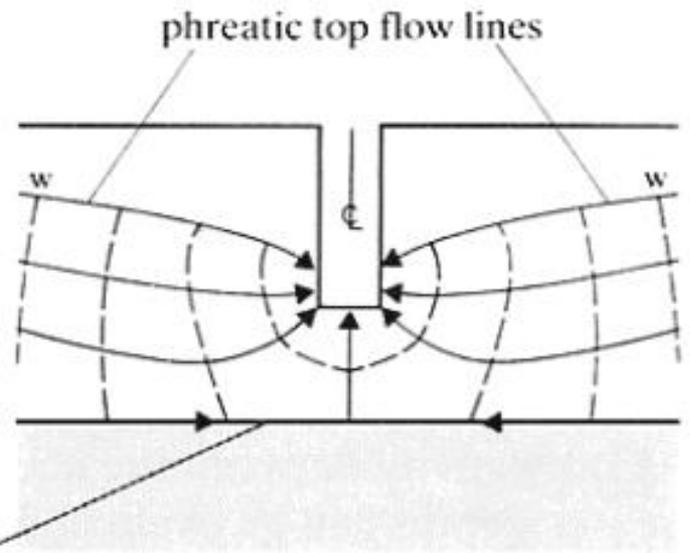
CONFINED FLOW

Wall



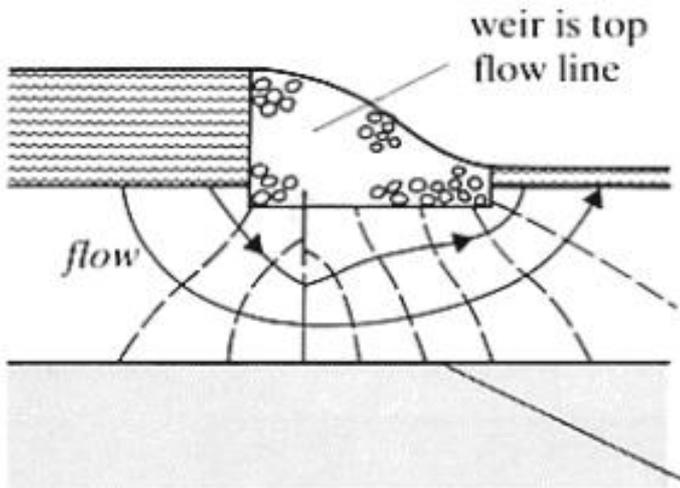
UNCONFINED FLOW

Trench

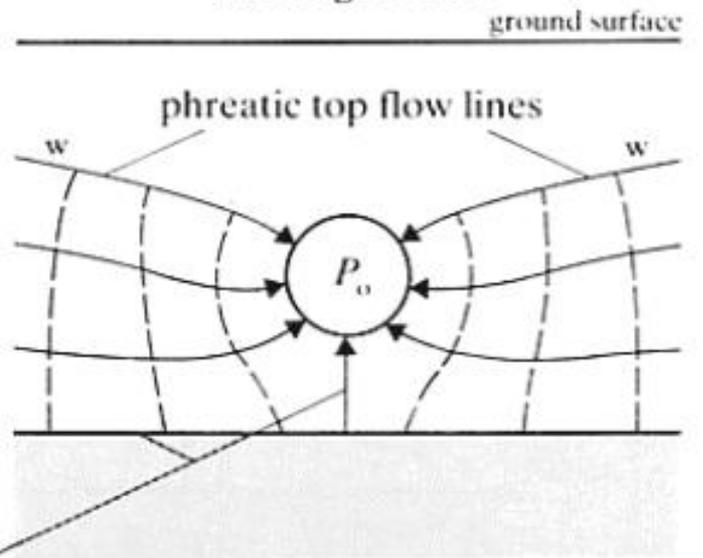


bottom
flow
lines

Weir



Drainage tunnel



bottom
flow
lines

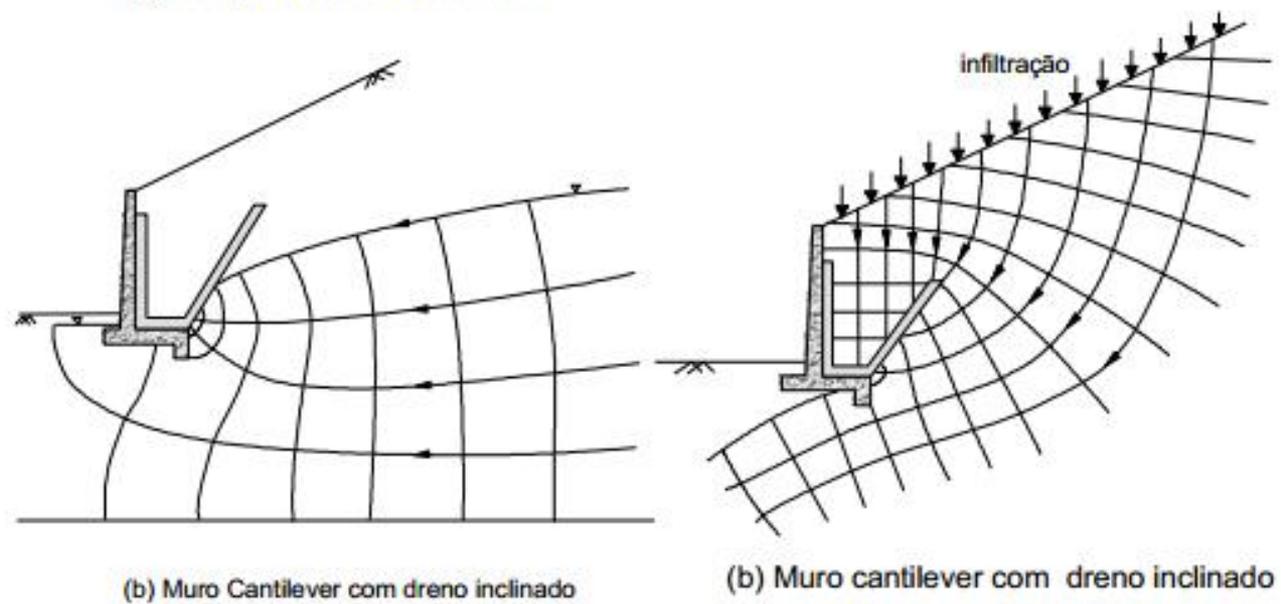
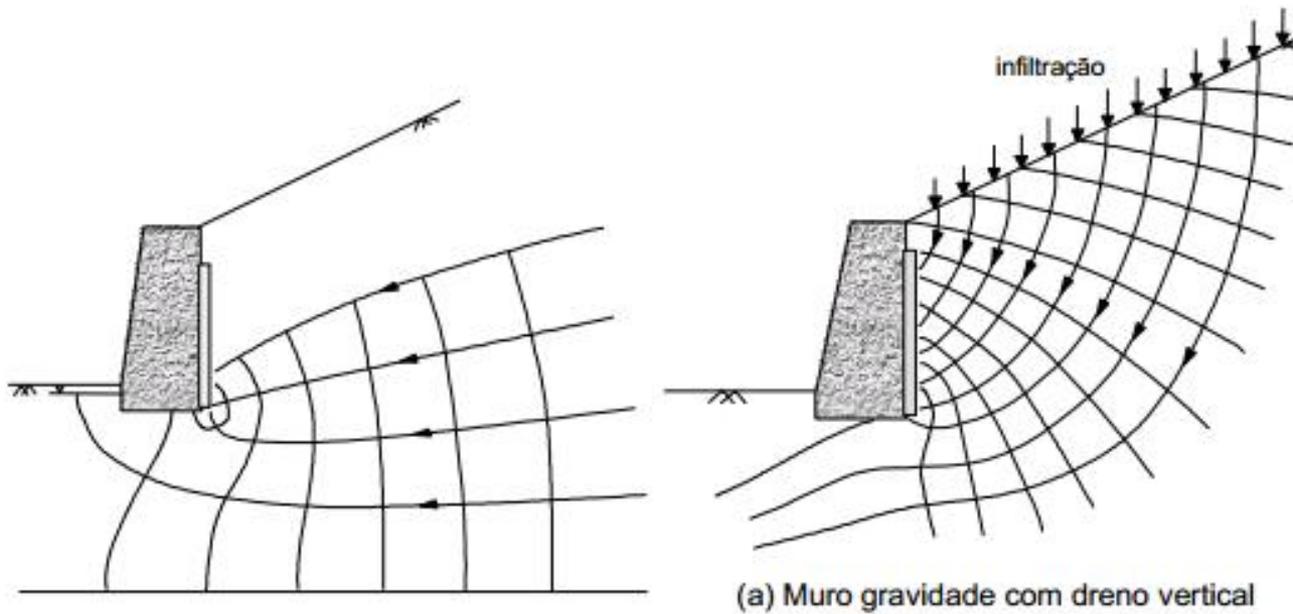


Figura 89. Redes de fluxo em muros

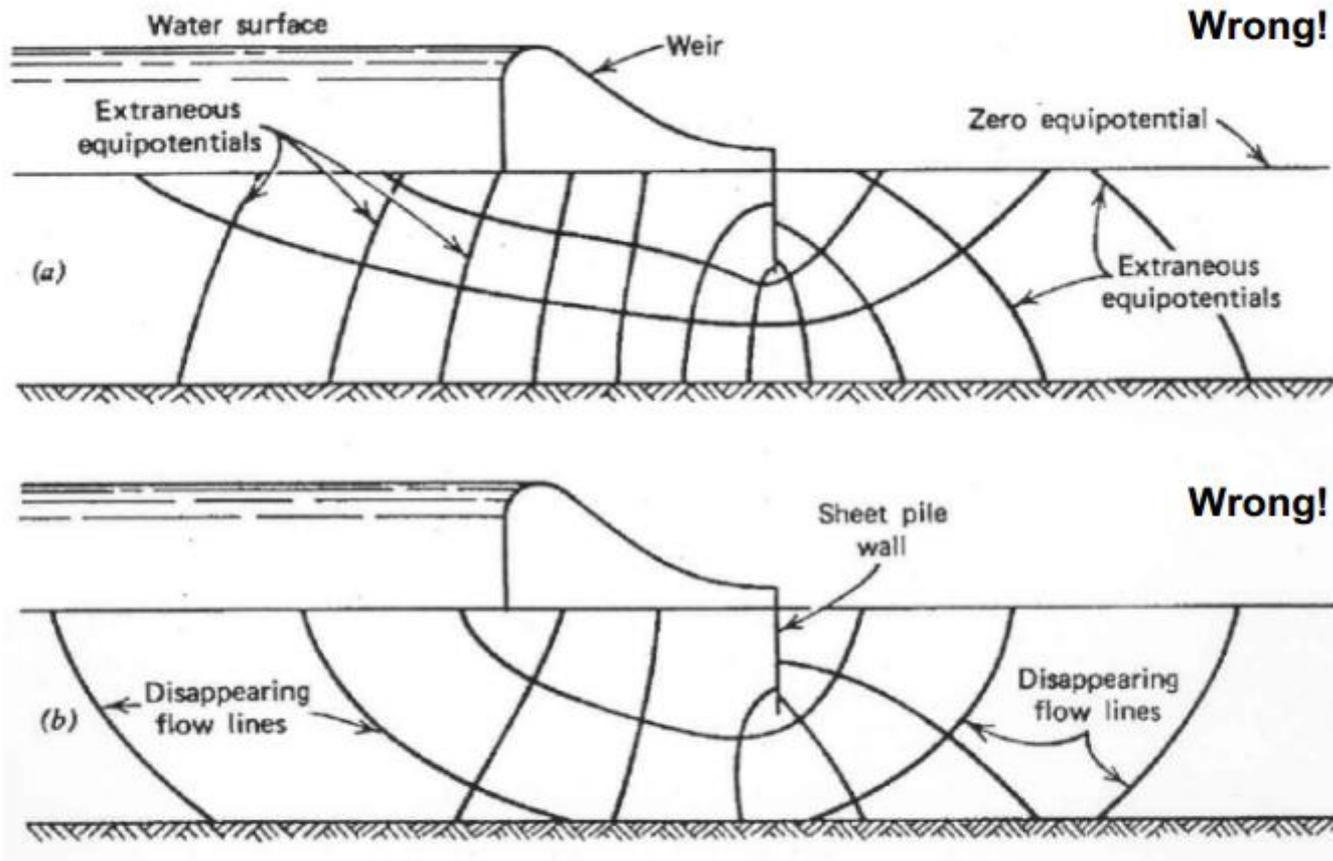
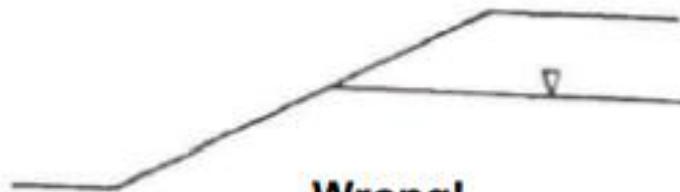


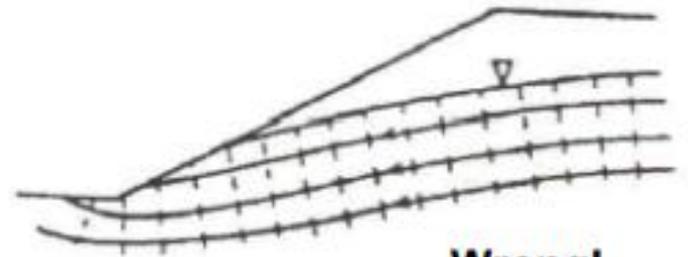
Figure 9. Some common errors include (a) equipotentials entering or exiting a no-flow boundary, and (b) disappearing flow lines.

EXAMPLES:



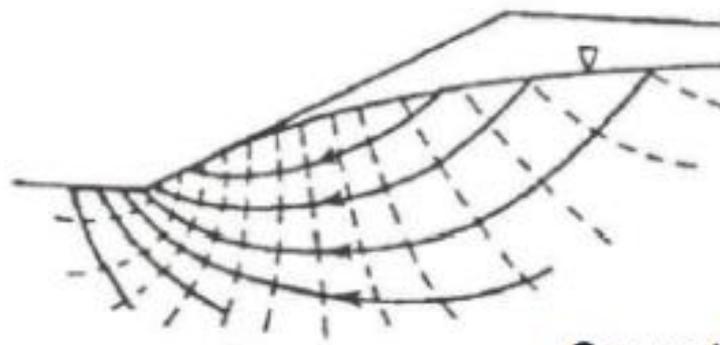
Wrong!

(a)



Wrong!

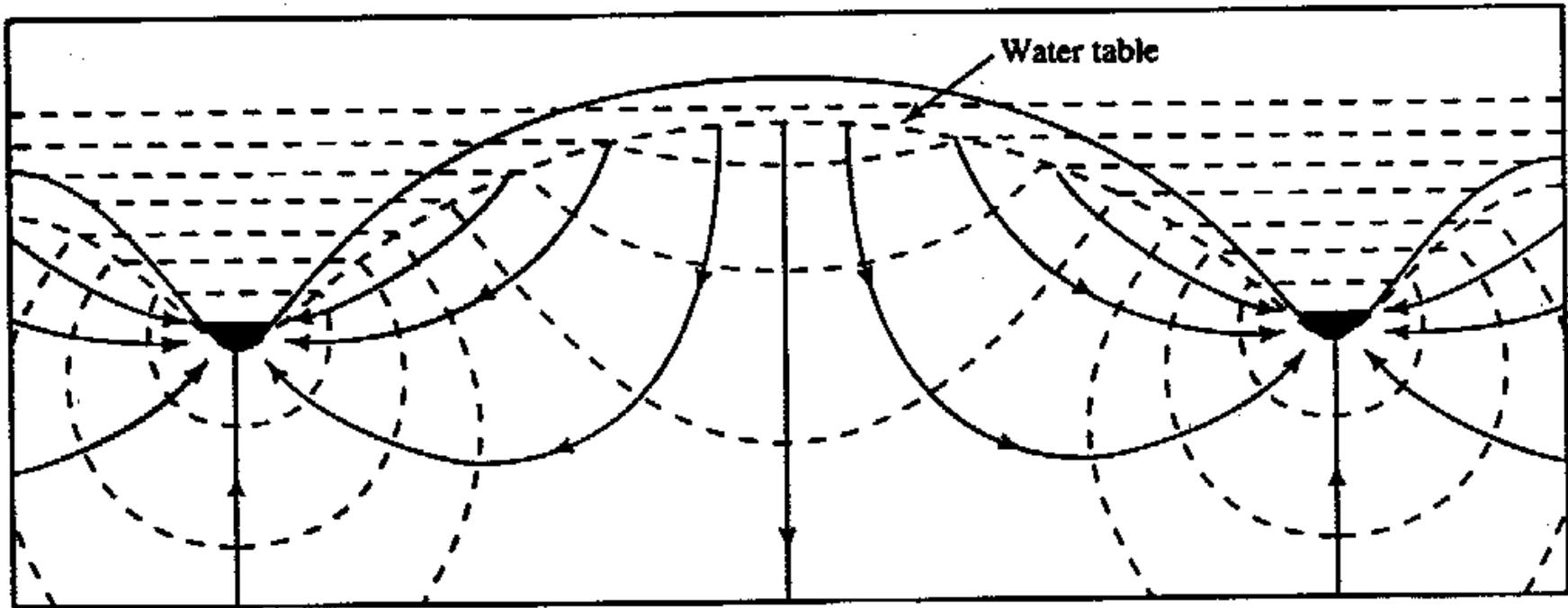
(b)



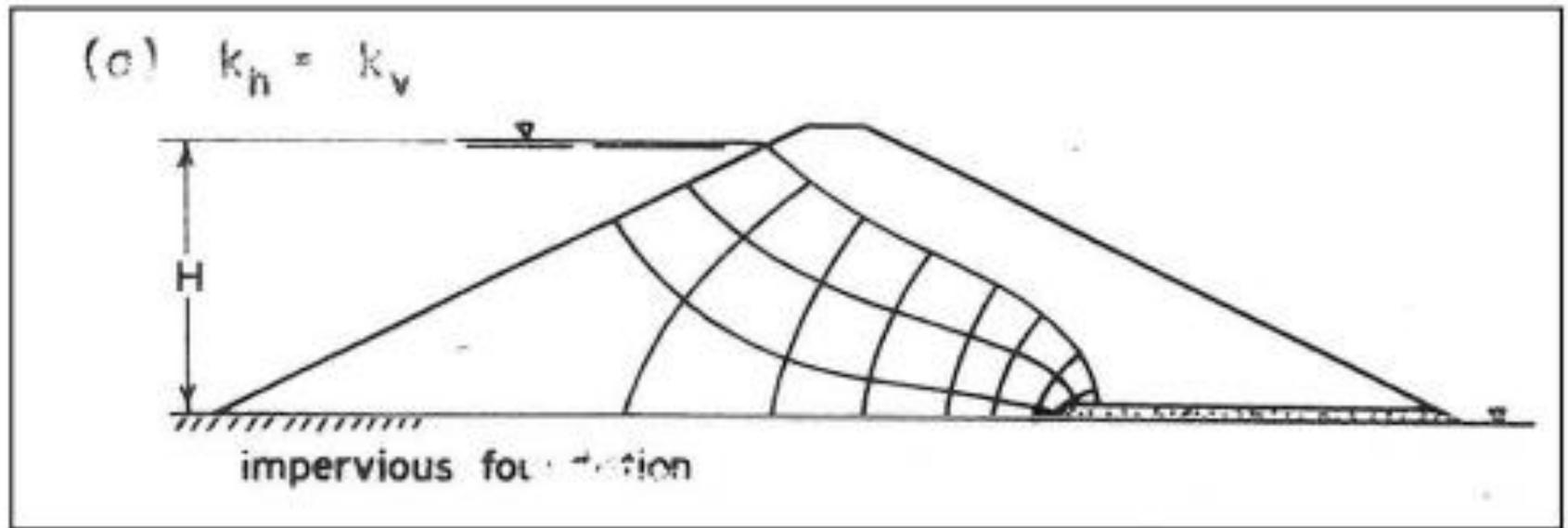
Correct!

(c)

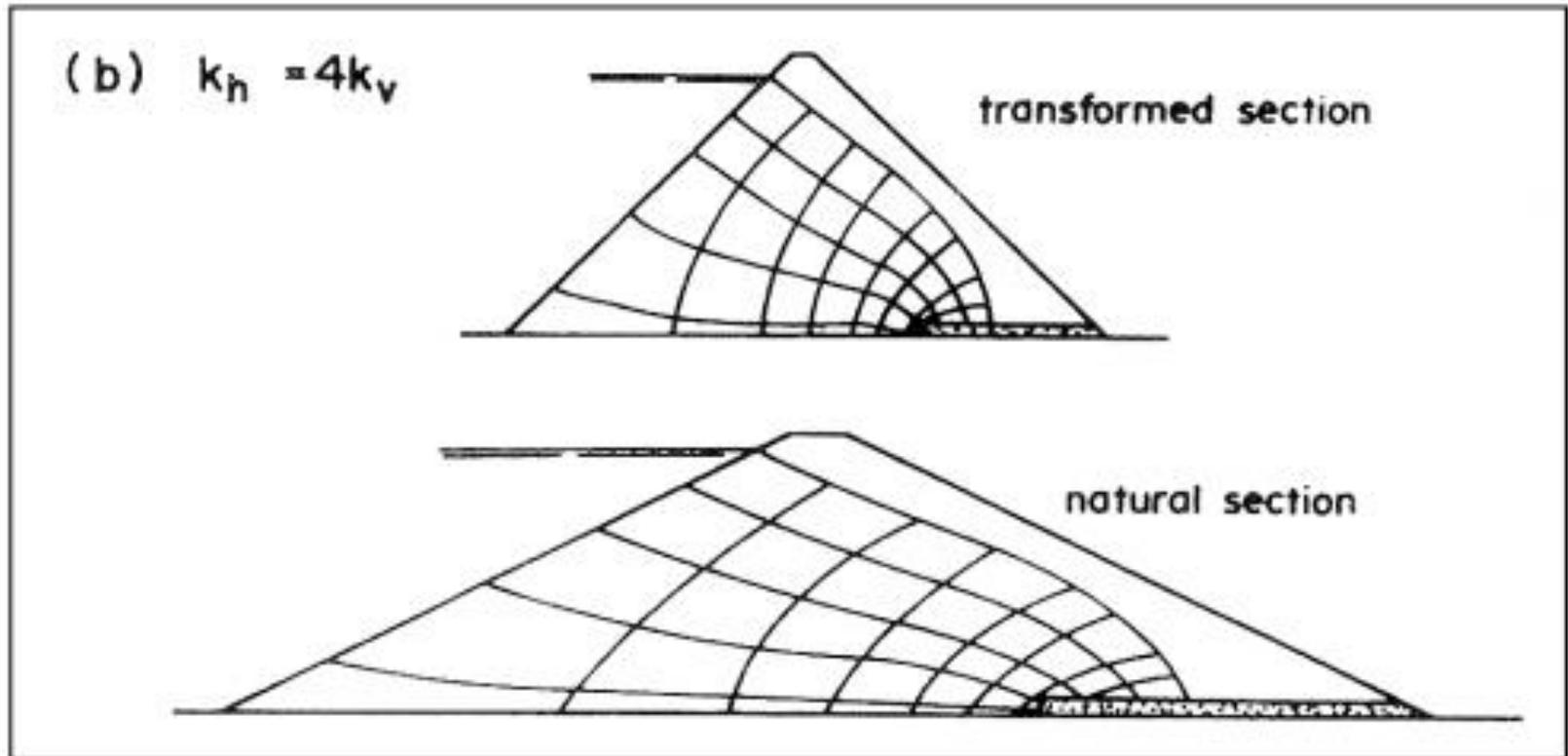
Figure 4. Unconfined groundwater flow nets on a slope. (a) and (b) are incorrect interpretations, and (c) is correct.



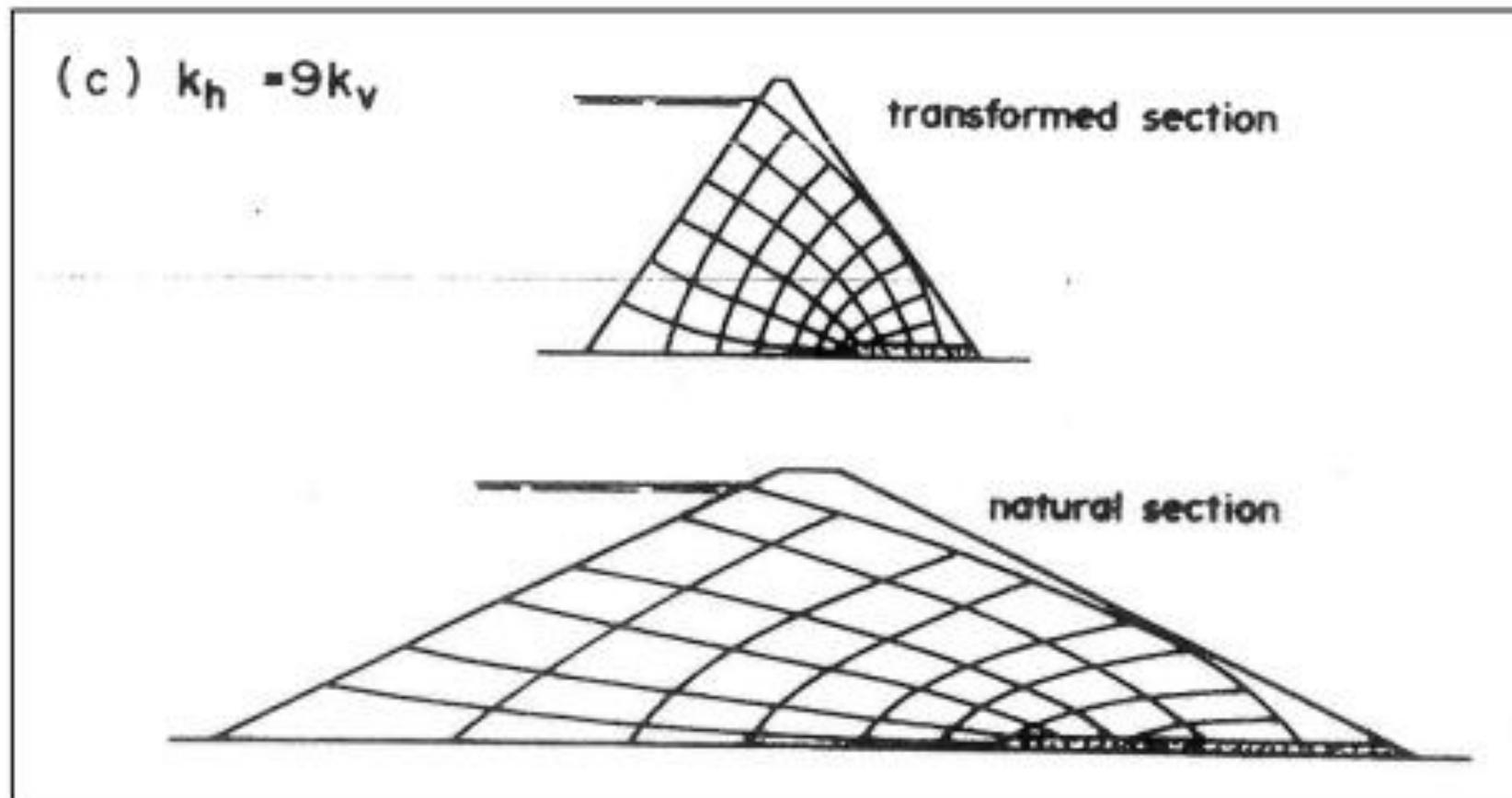
Influência da Anisotropia na Rede de Fluxo Através da Barragem

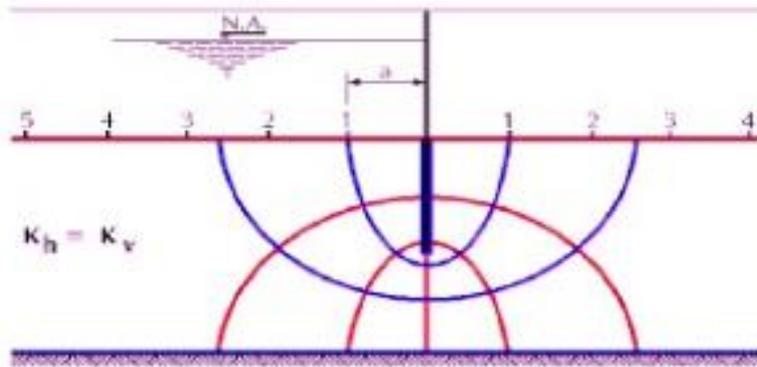


Influência da Anisotropia na Rede de Fluxo Através da Barragem

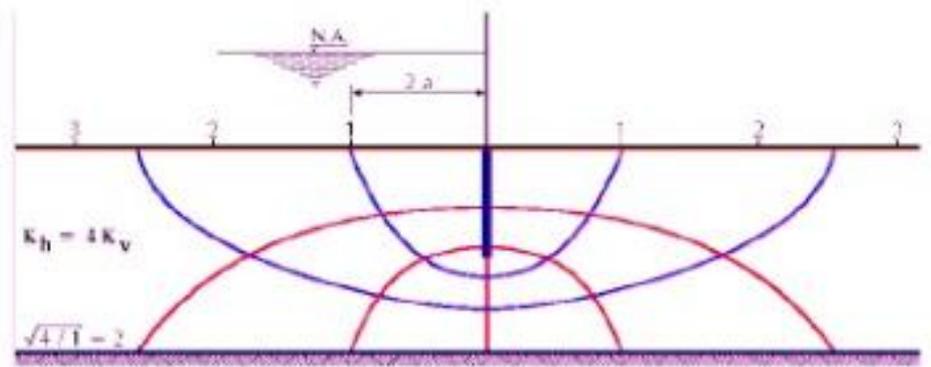


Influência da anisotropia na rede de fluxo através da barragem

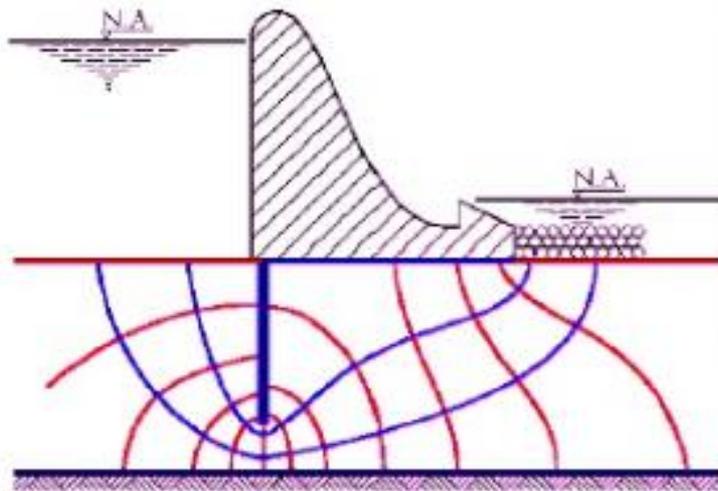




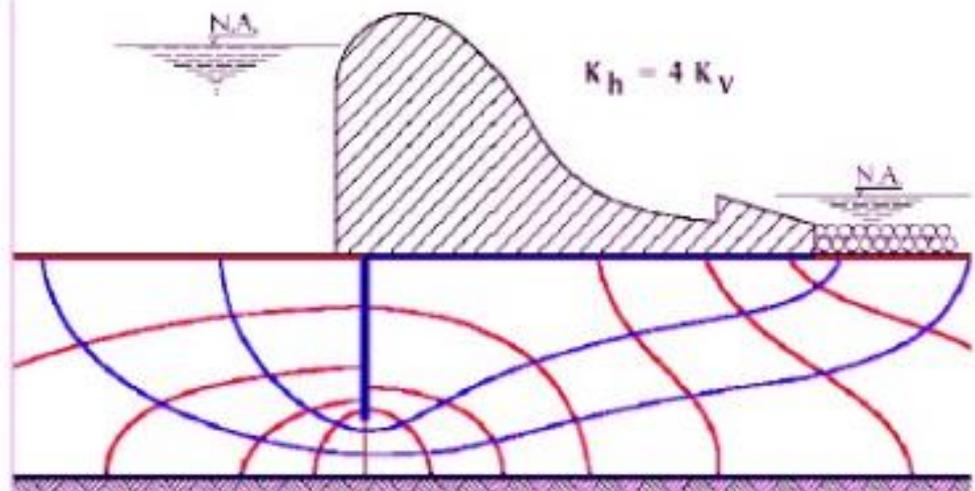
(a) seção transformada



(b) Seção real



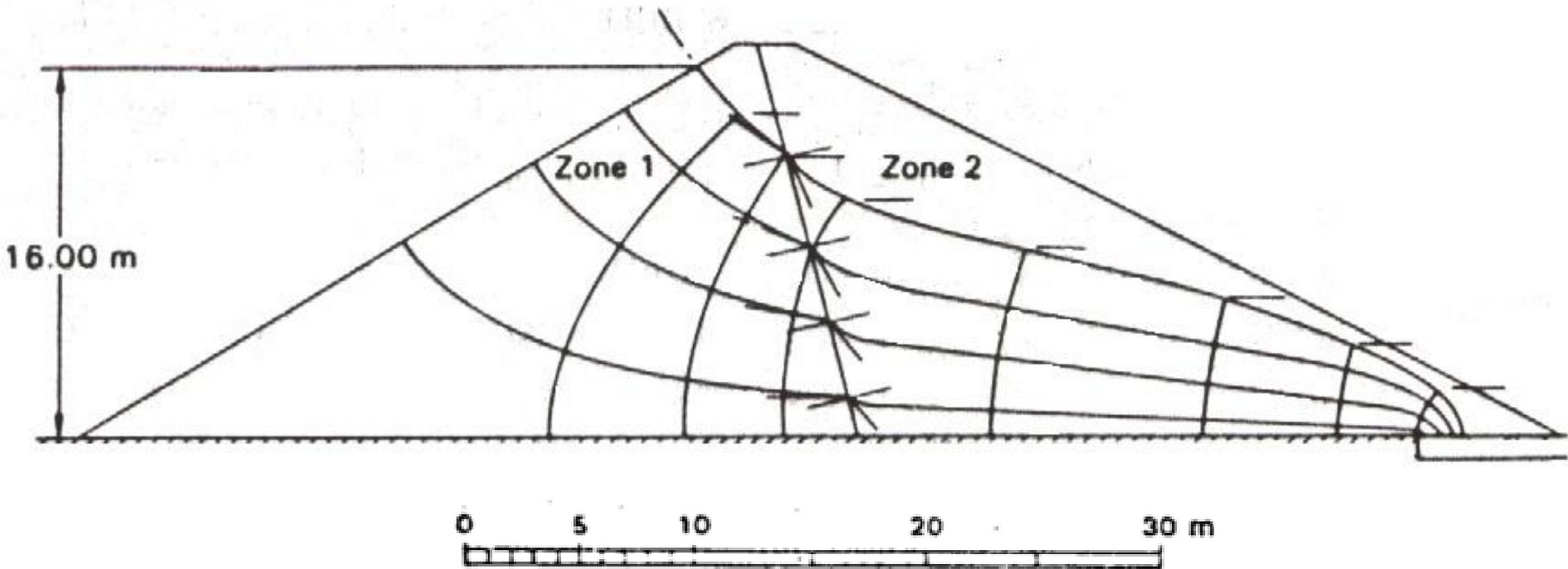
(a) seção transformada

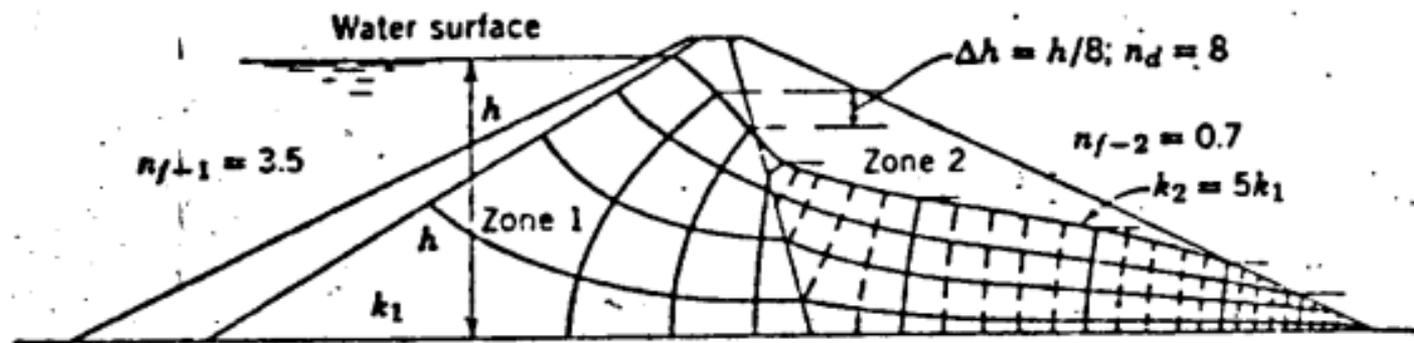


(b) Seção real

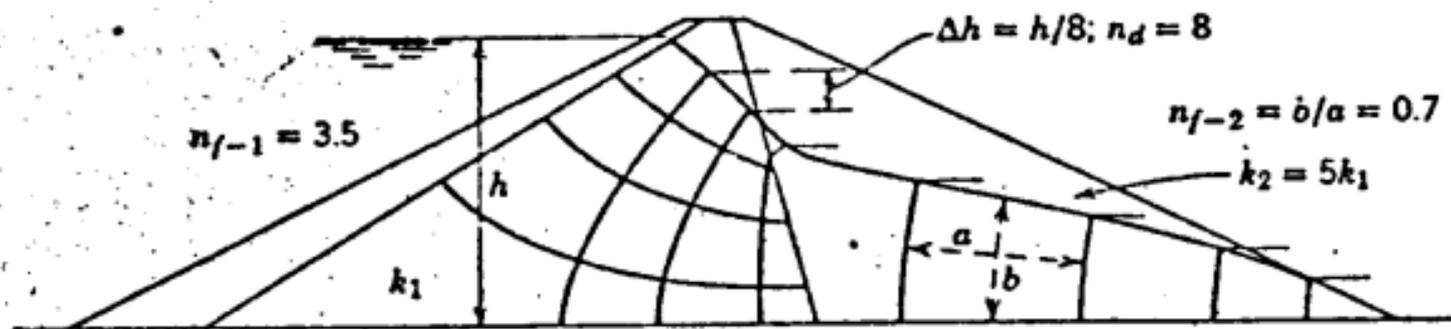
Figura 3.20 – Exemplos de rede de fluxo em meios anisotrópicos. Modificado de Stancati (1984).

Influência da heterogeneidade na rede de fluxo através da barragem

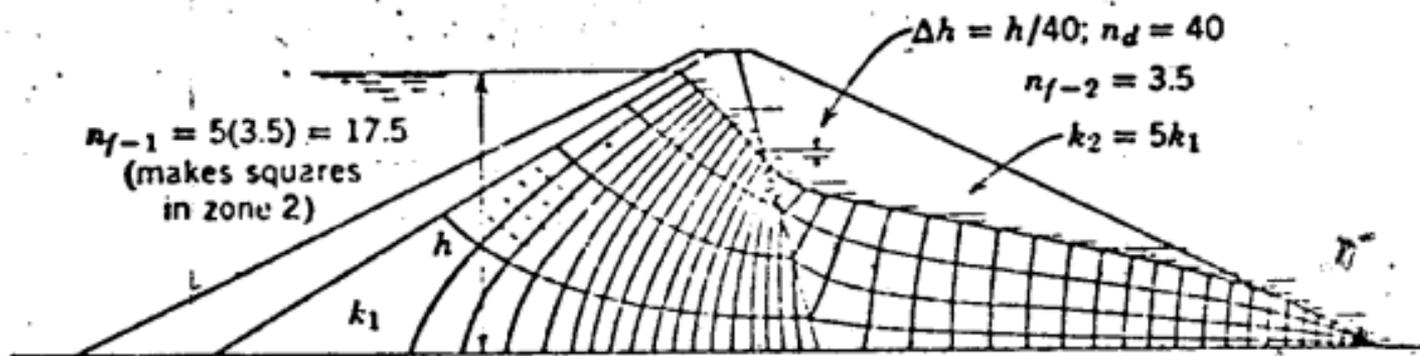




(a)



(b)



(c)

Figure 91 – Three forms of one flow net

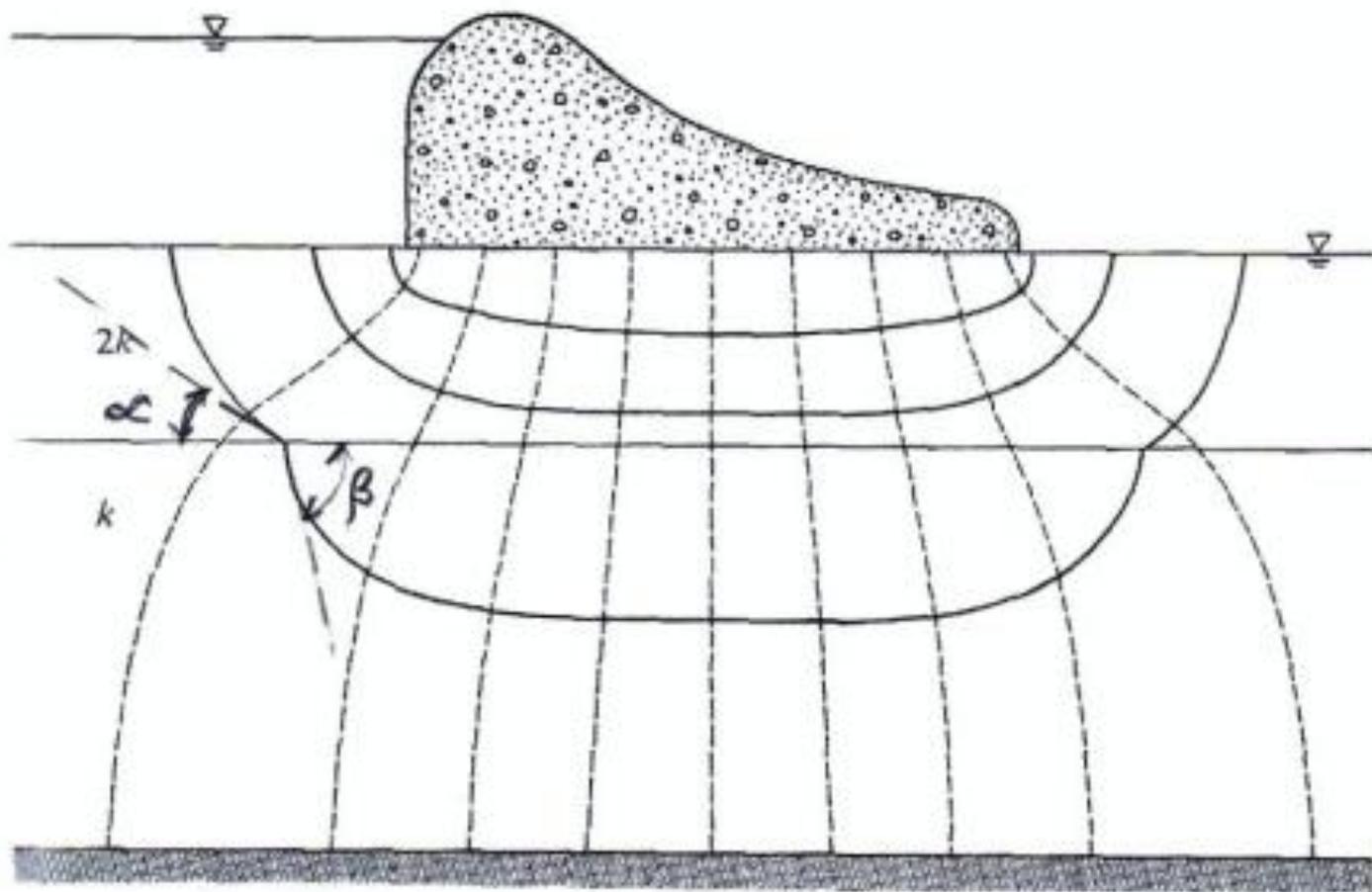


Figura 81. Fundação Heterogenea

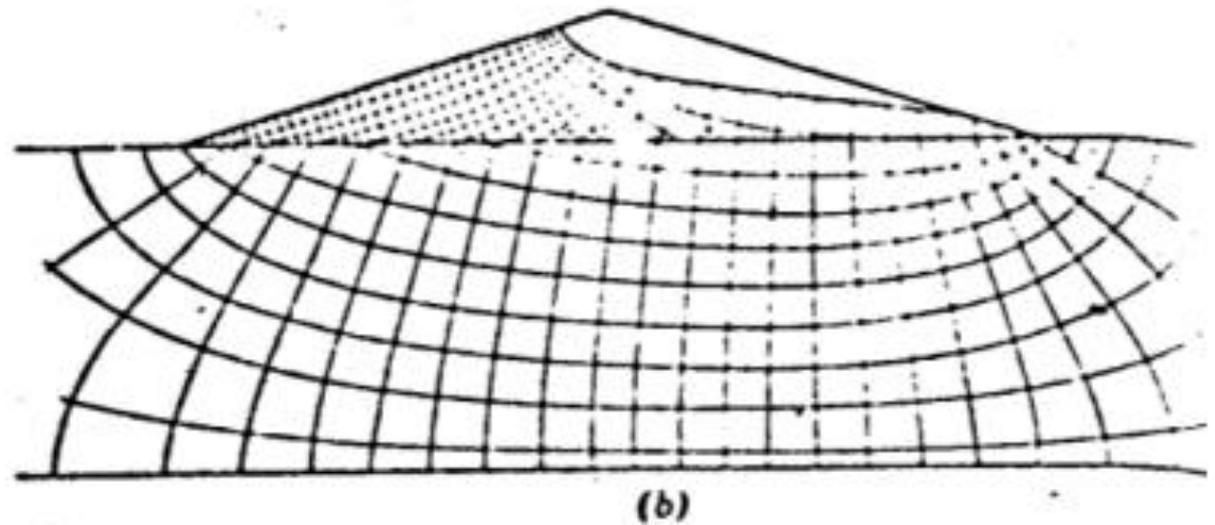
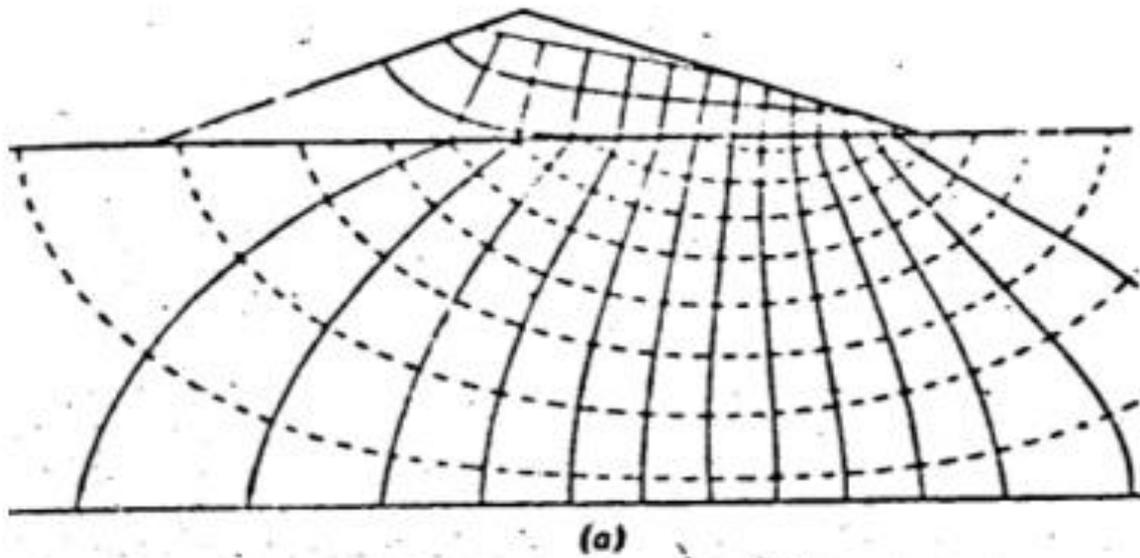
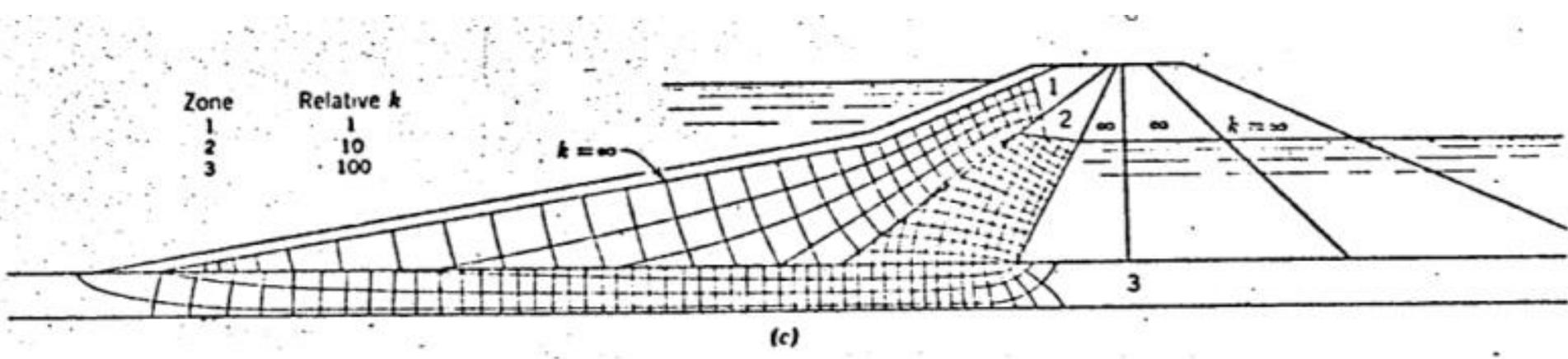
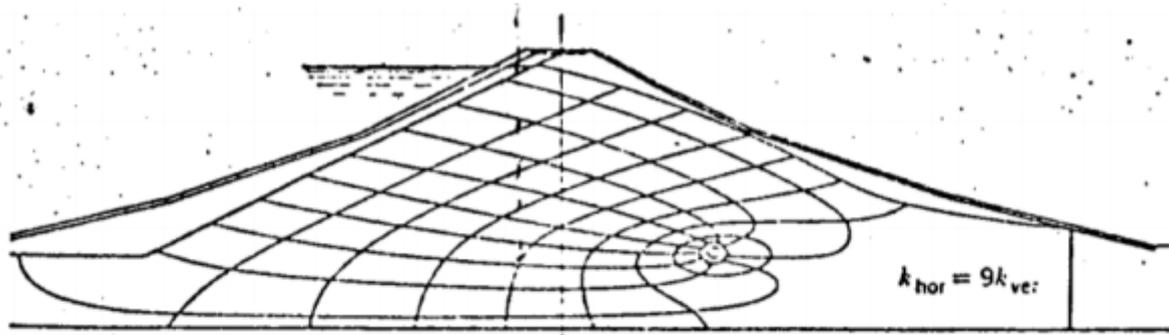
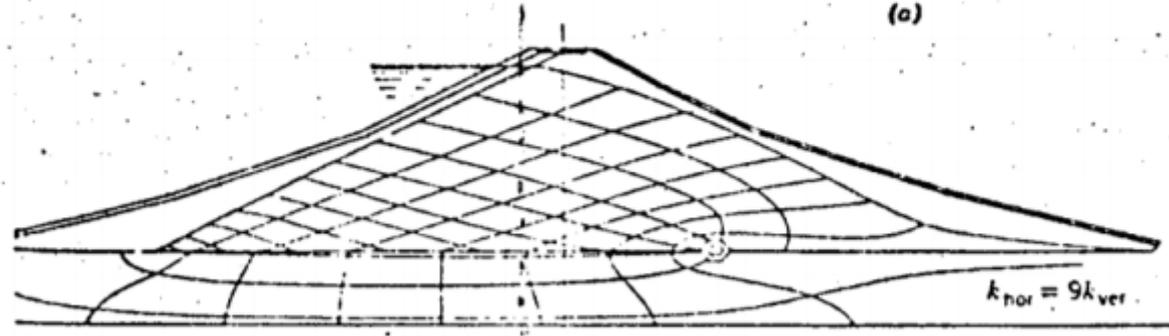
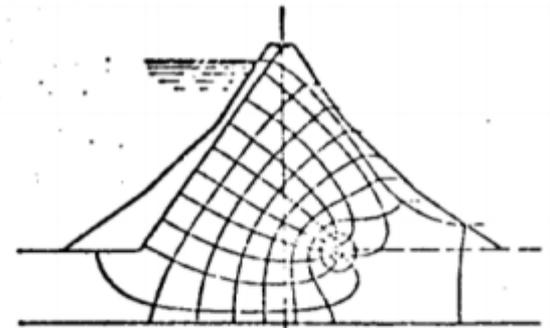


Figura 93 – Typical flow nets through dams of different permeability (after Cedergren, Ref.214). (a) Permeability of embankment 10 times the permeability of foundation. (b) Permeability of embankment 0,1 times the permeability of foundation.





(a)



(b)

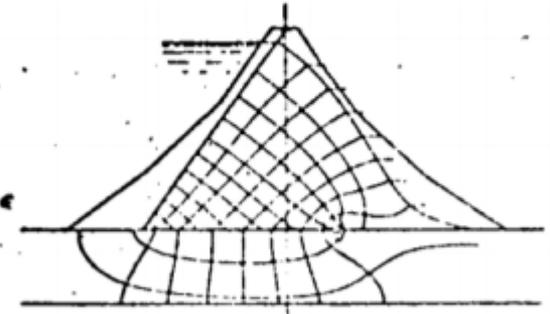
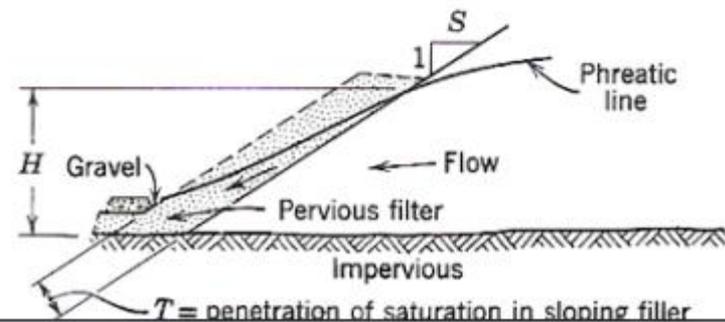
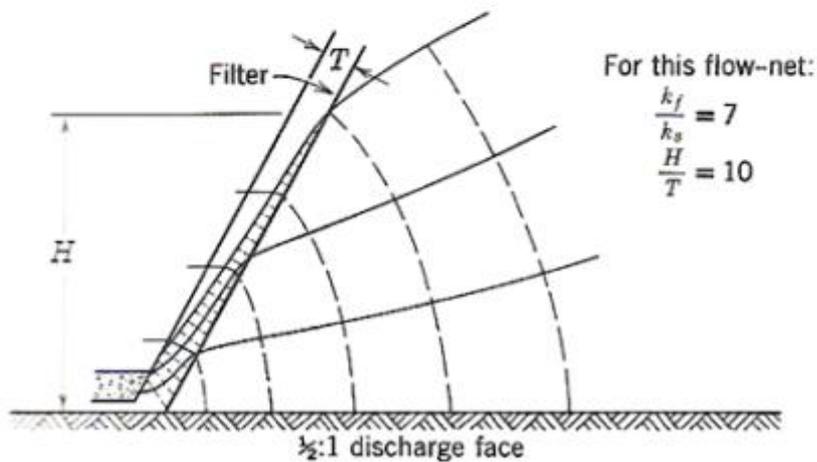
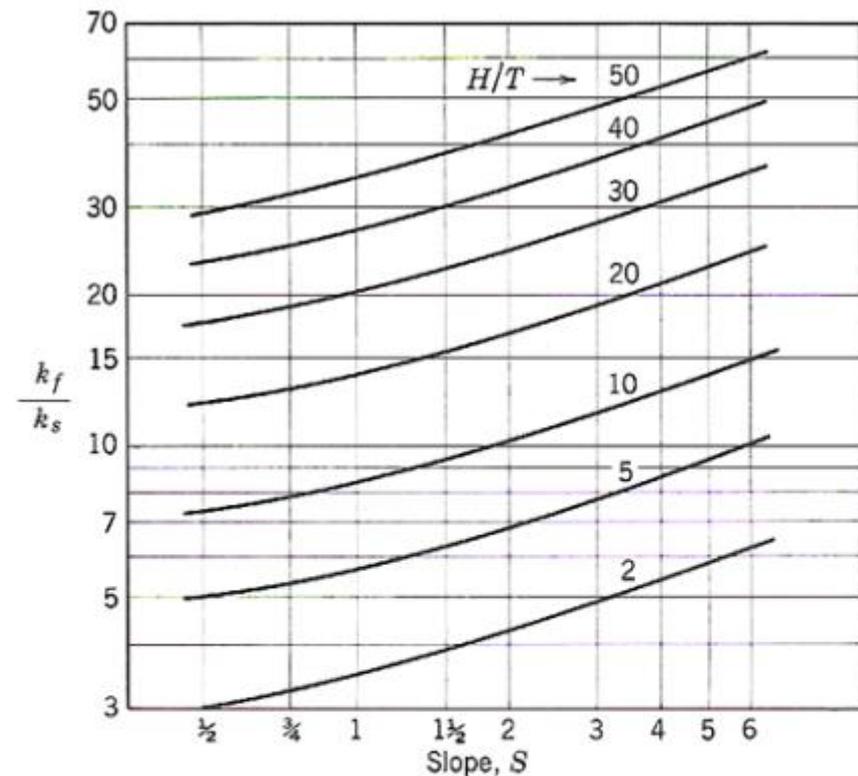
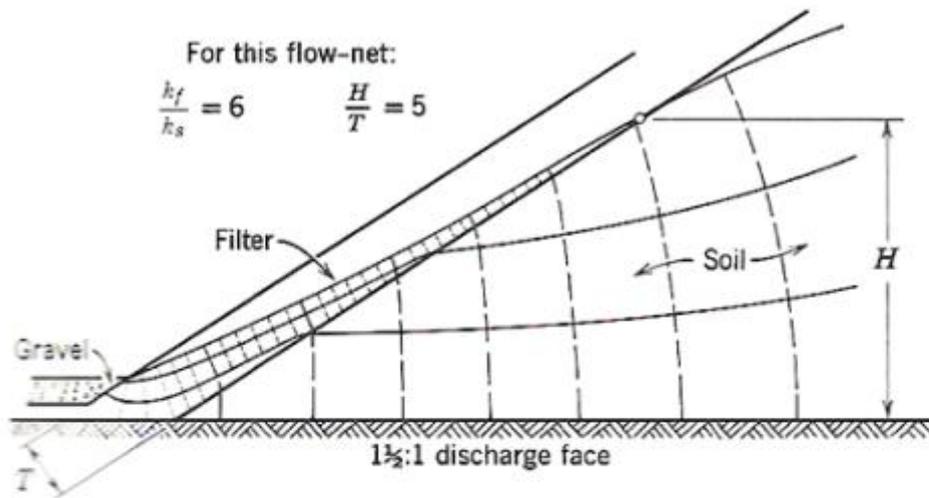


Figura 92 – Typical flow nets through anisotropic embankment and foundations (after Cedergren, Ref.214). (a) Foundation permeability equal to embankment permeability. (b) Foundation permeability 30 times embankment permeability.



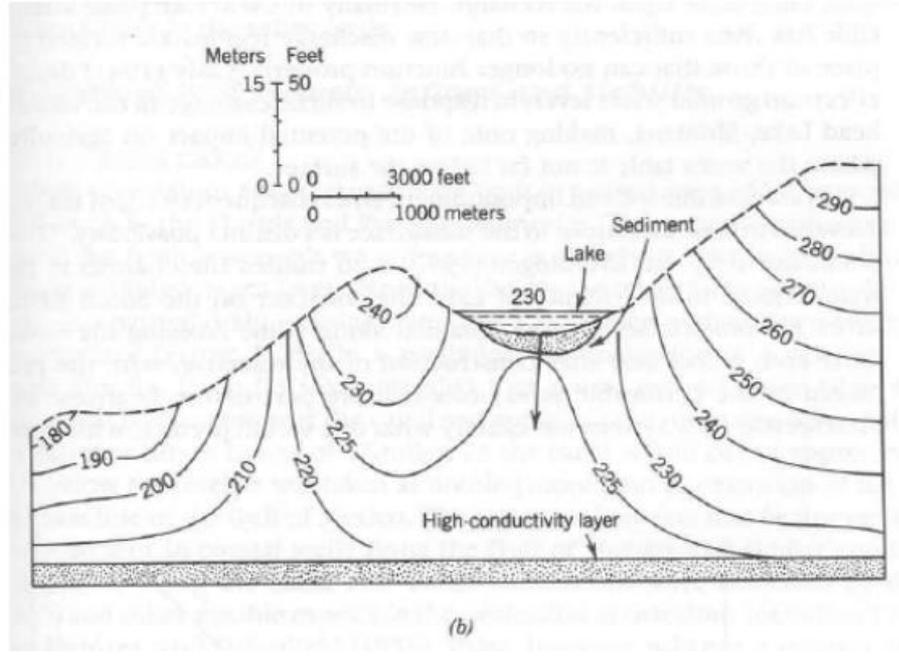
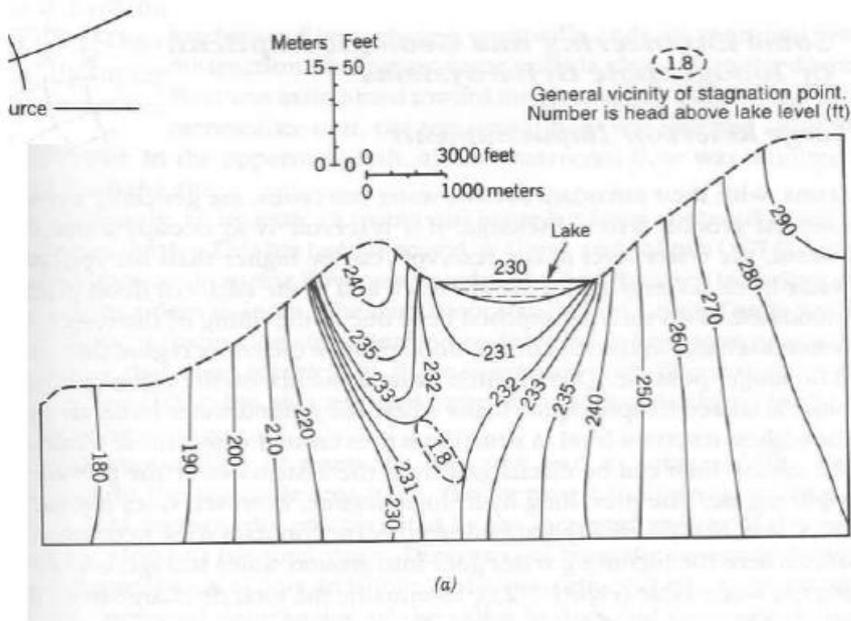


Figure 8. Flow conditions in the vicinity of a lake demonstrating the effect of a high permeability layer at depth (Winter, 1976).

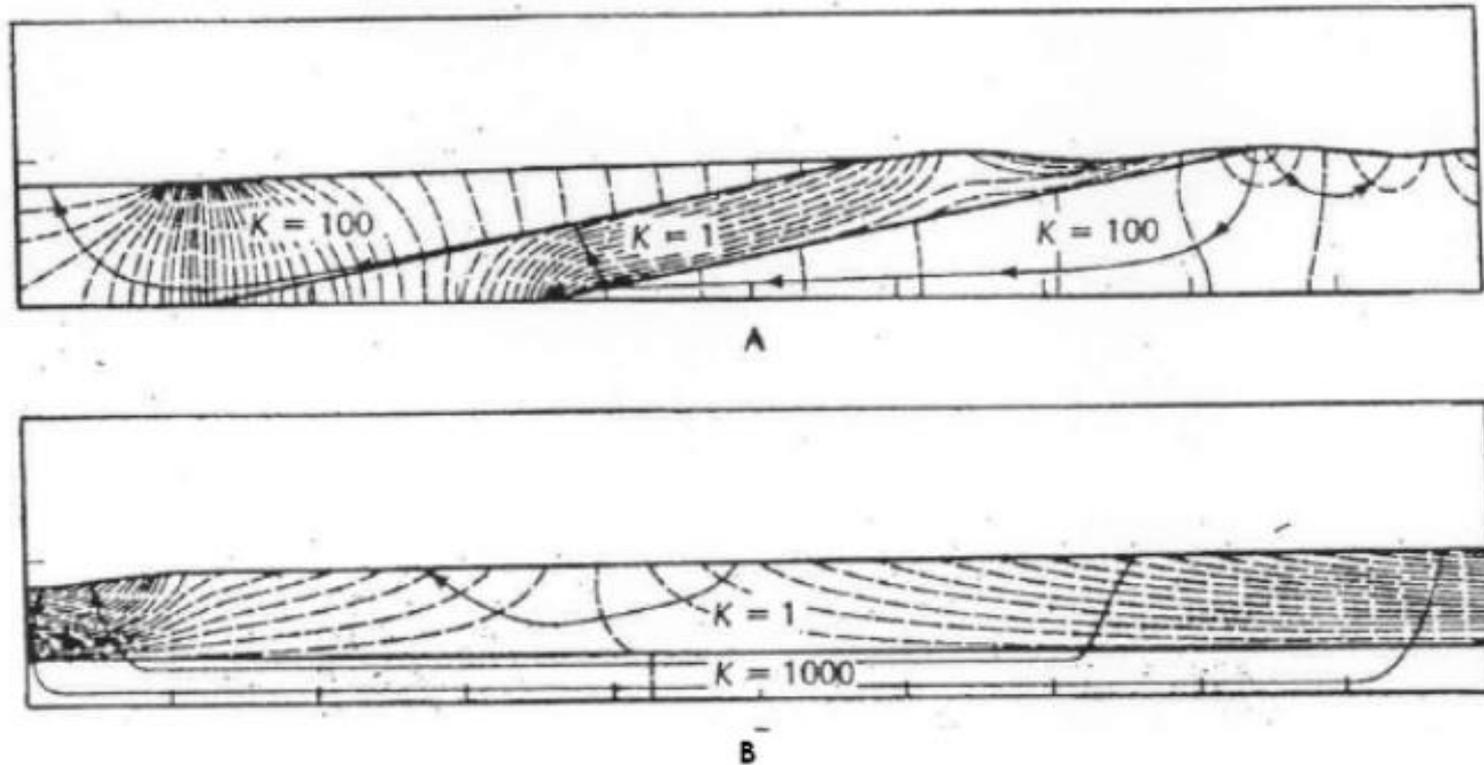


Figure 12. Regional groundwater flow in confined aquifers: (a) Aquifer confined by a sloping confined layer. (b) Aquifer confined by a flat-lying confining layer (Freeze & Witherspoon, 1967).

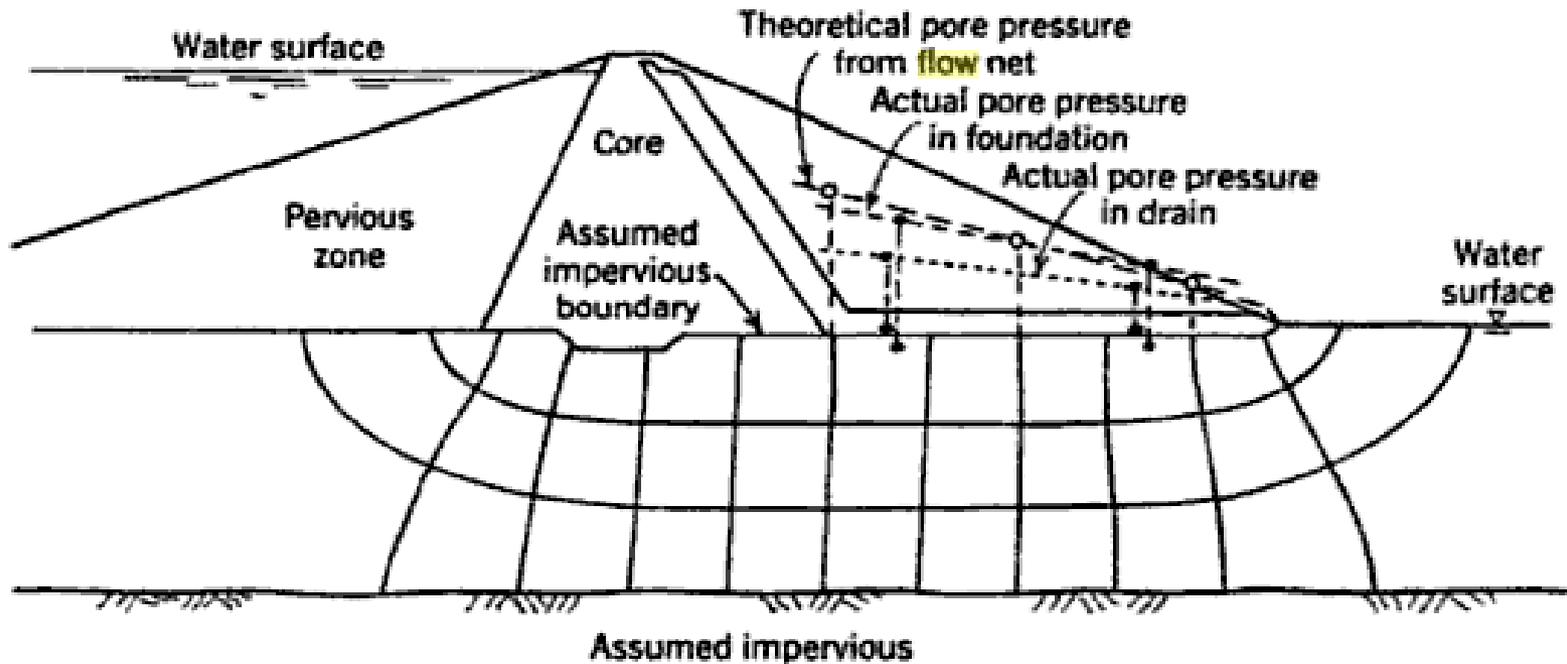
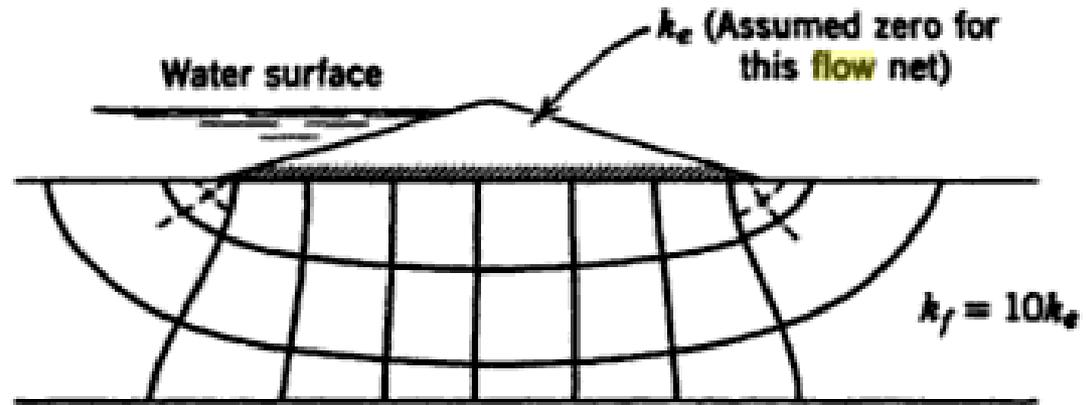
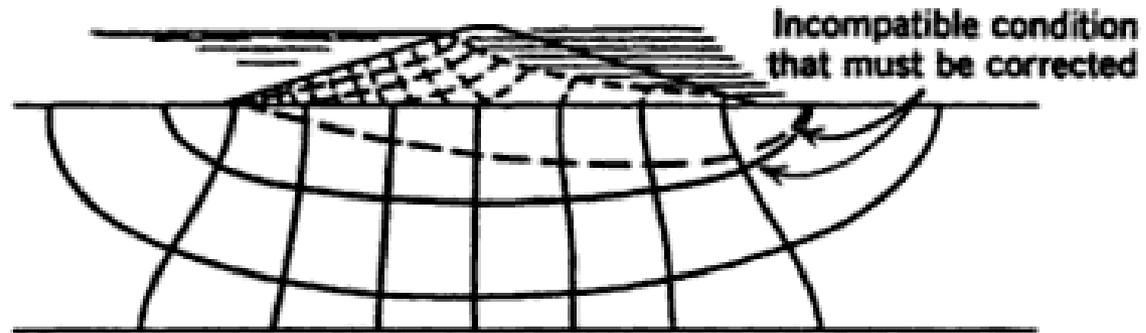


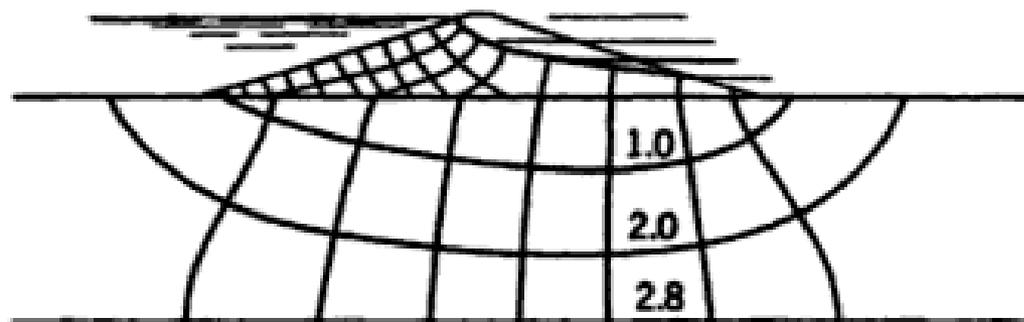
FIG. 5.10 Uplift pressures that built up under an earth dam with an expensive but ineffective drain were not measurably affected by the drain. (From *Embankment-Dam Engineering, Casagrande Volume*, Wiley, New York, 1973, p. 42).



(a)



(b)



(c)