



flow nets examples



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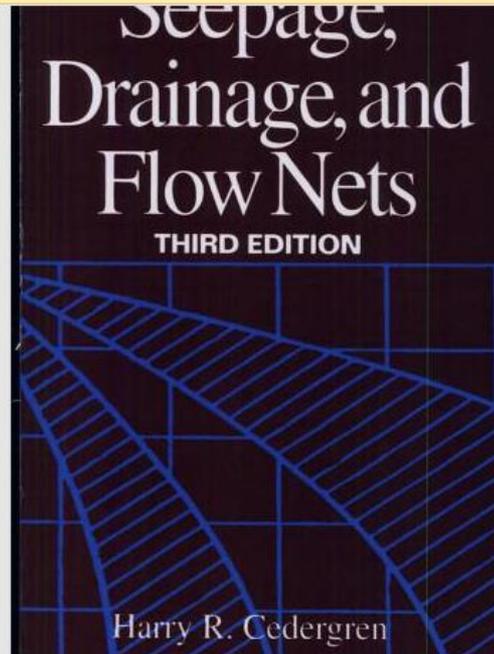


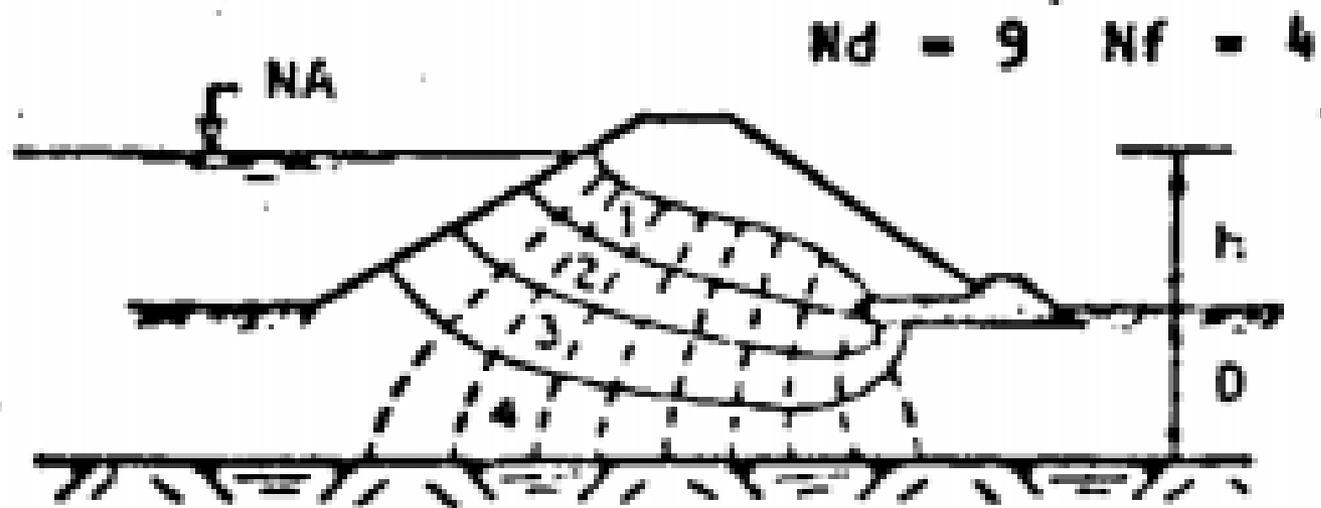
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Seepage, Drainage, and Flow Nets

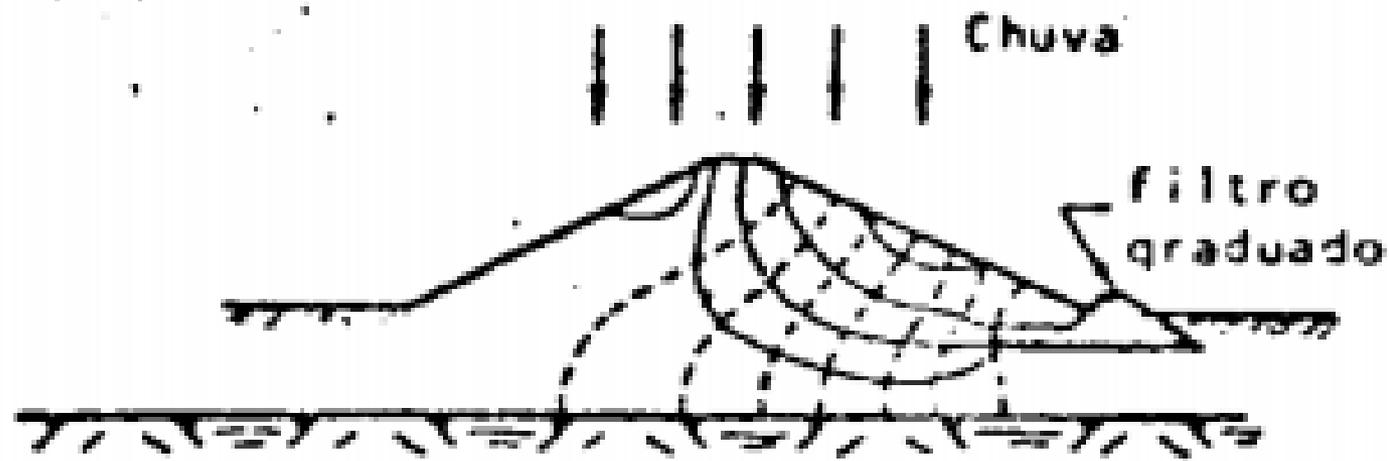
Por Harry R. Cedergren

flow nets examplac Ir

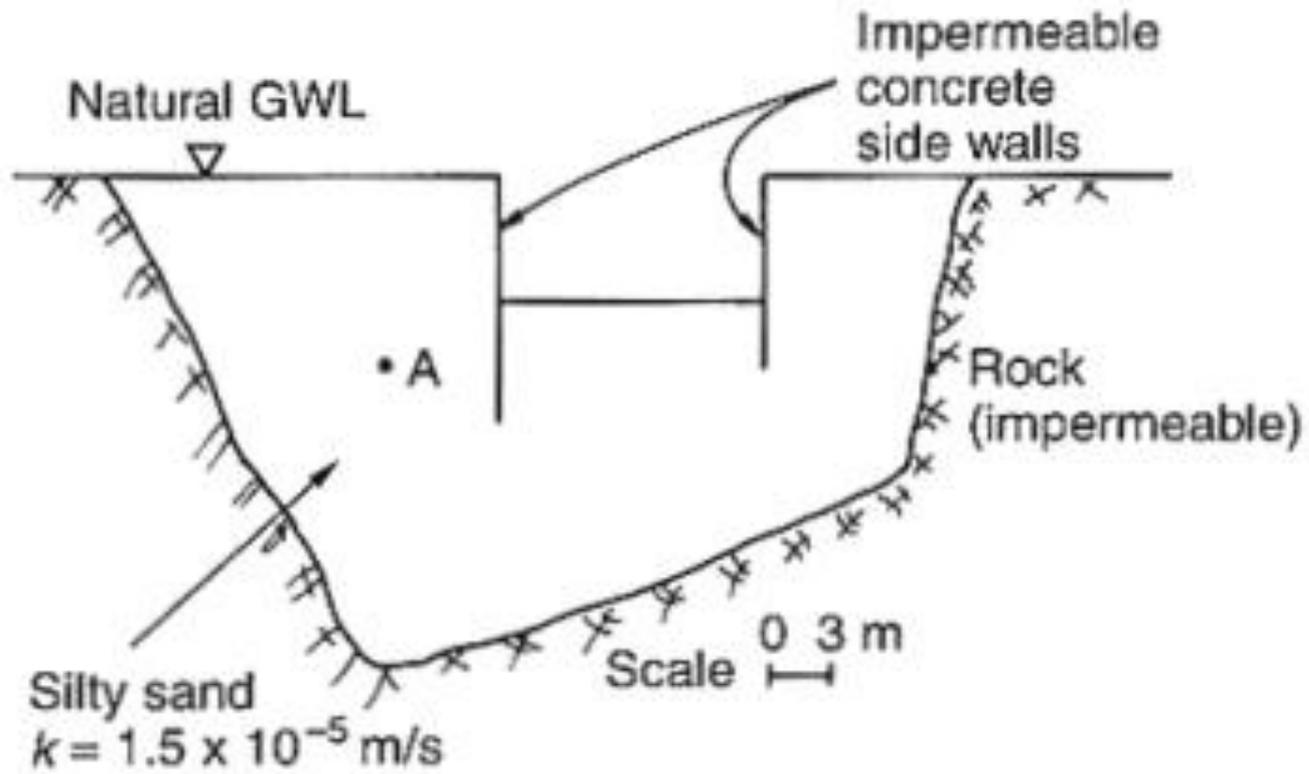




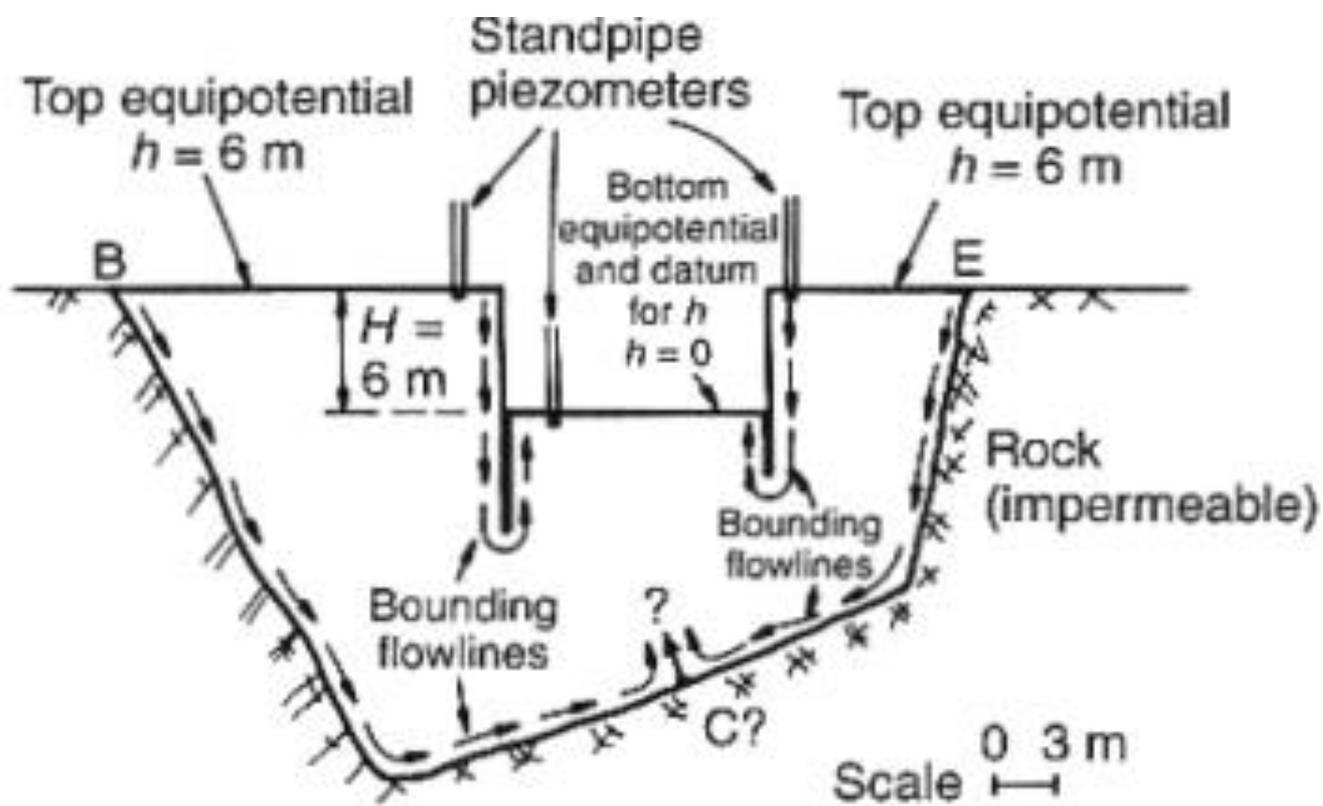
e) Barragem de Terra



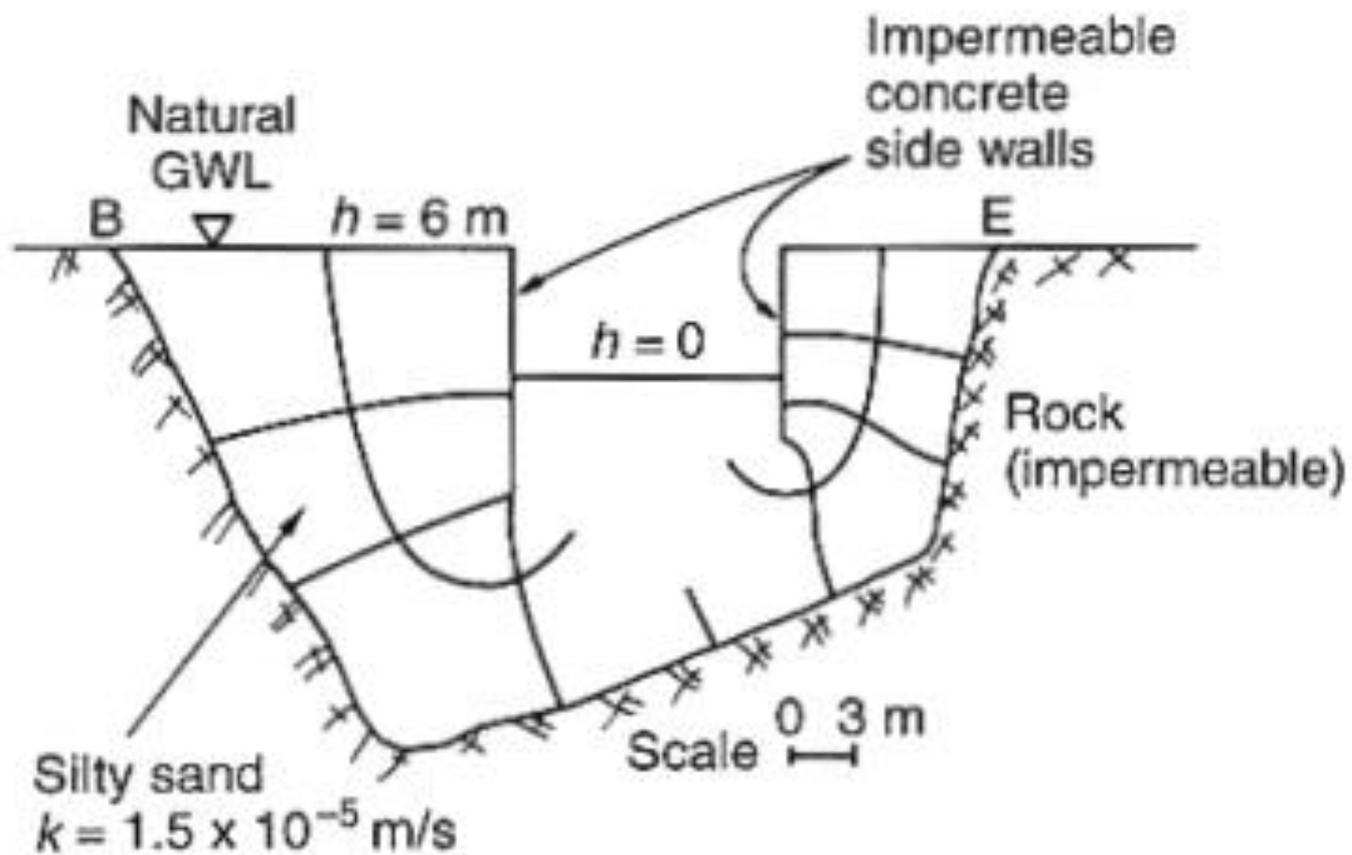
f) Parragem de Terra sob Chuvas Copiosas



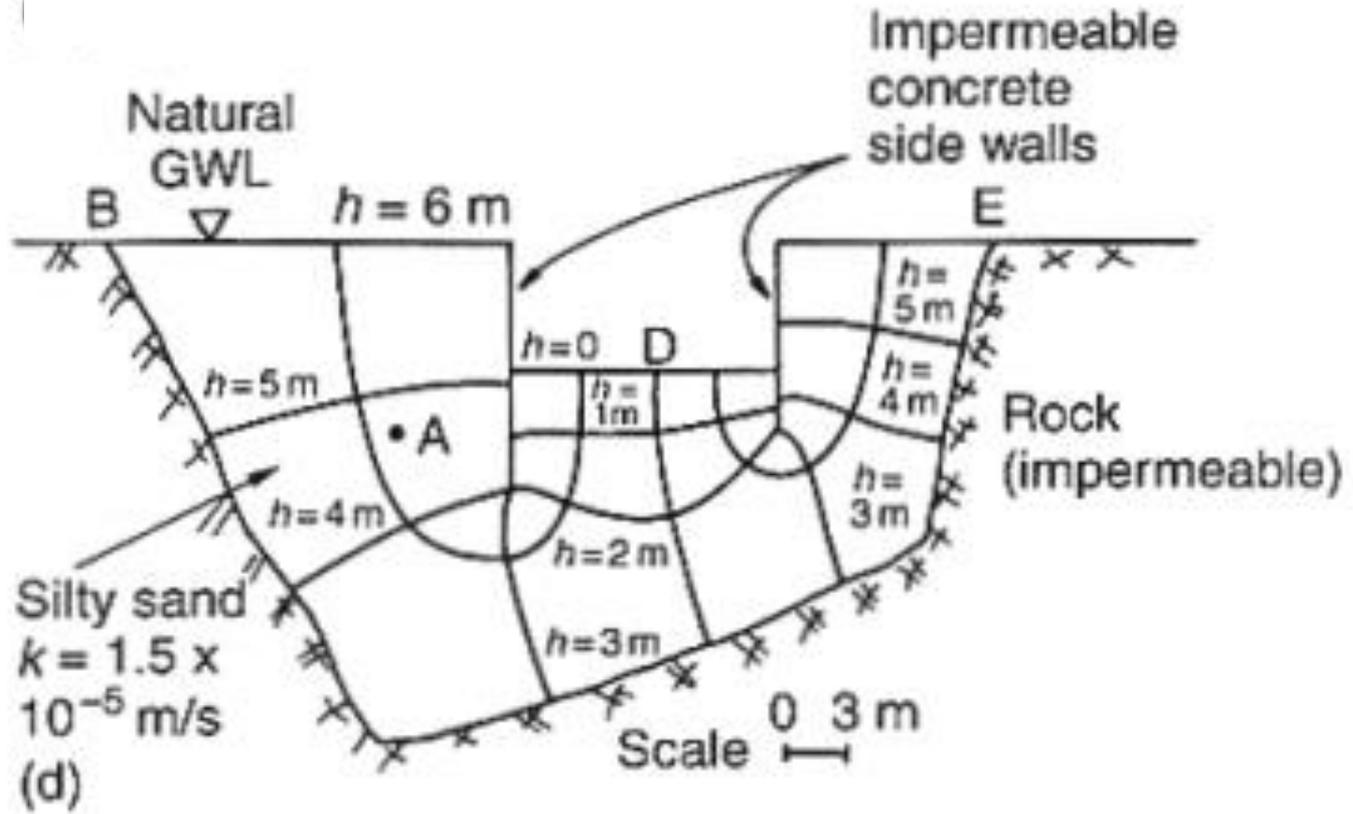
(a)



(b)

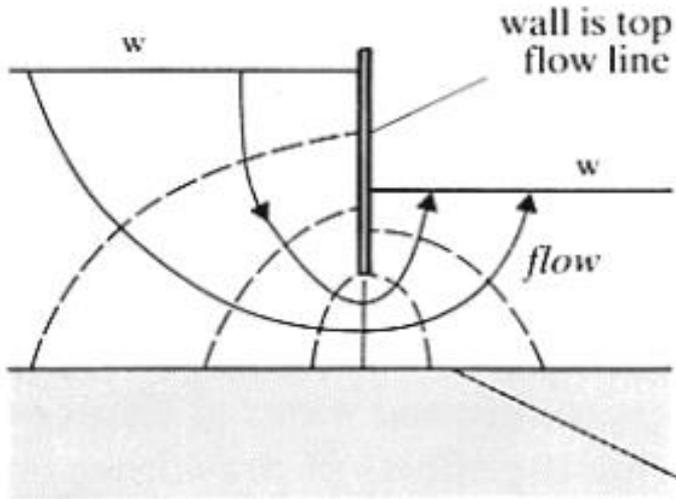


(c)



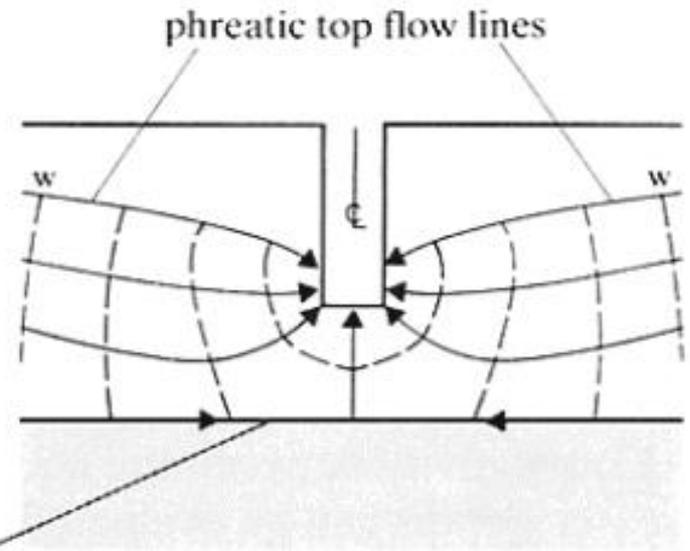
CONFINED FLOW

Wall



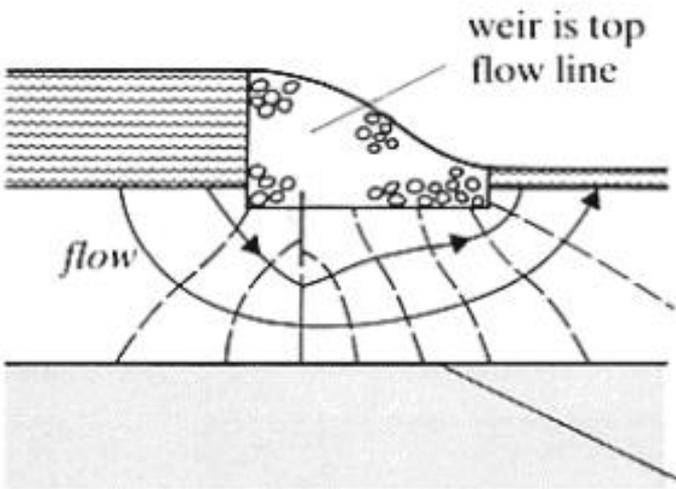
UNCONFINED FLOW

Trench

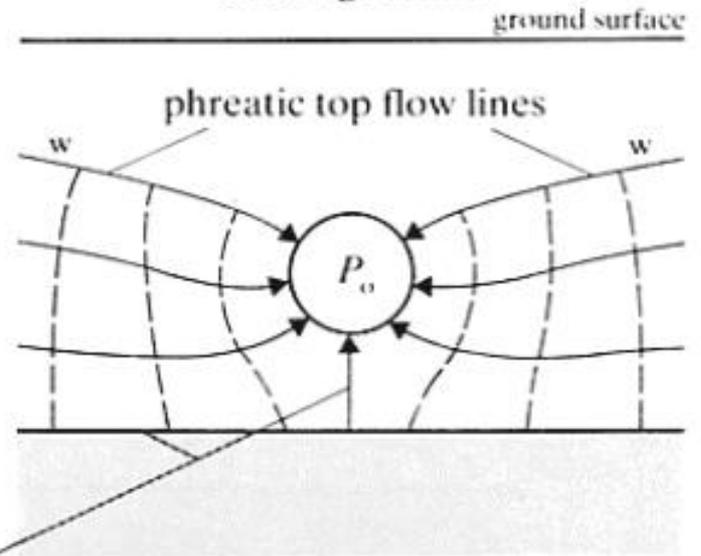


bottom
flow
lines

Weir



Drainage tunnel



bottom
flow
lines

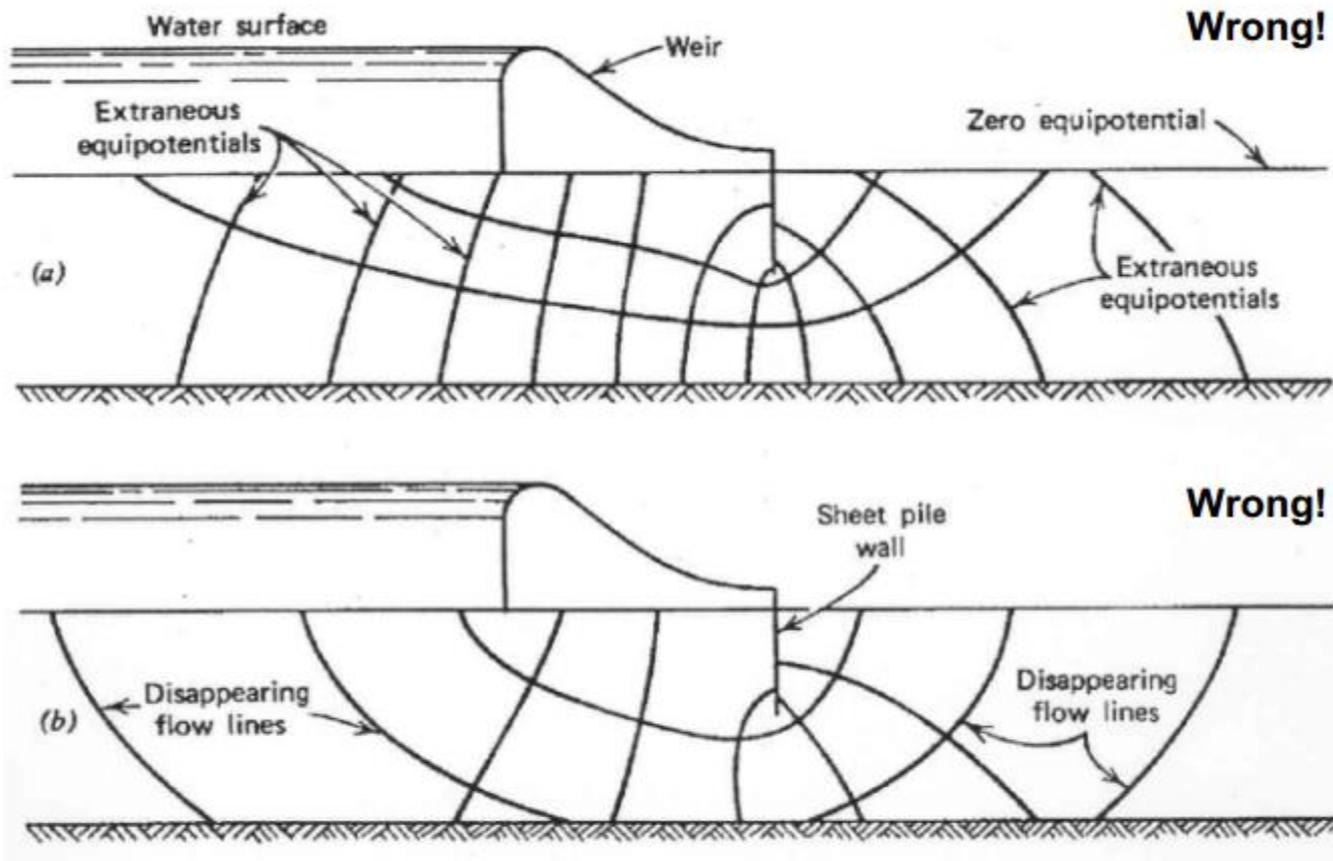
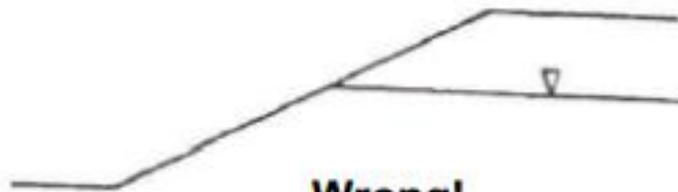


Figure 9. Some common errors include (a) equipotentials entering or exiting a no-flow boundary, and (b) disappearing flow lines.

EXAMPLES:



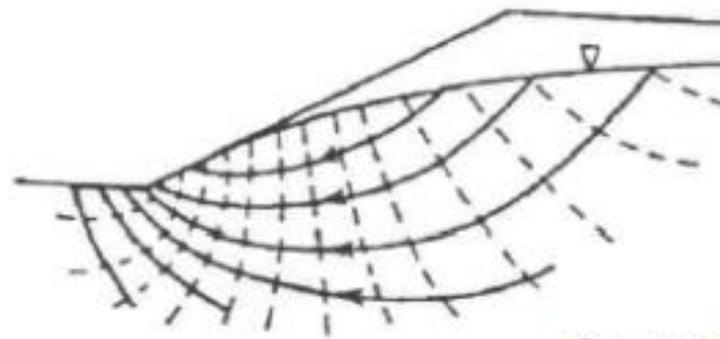
Wrong!

(a)



Wrong!

(b)



Correct!

(c)

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

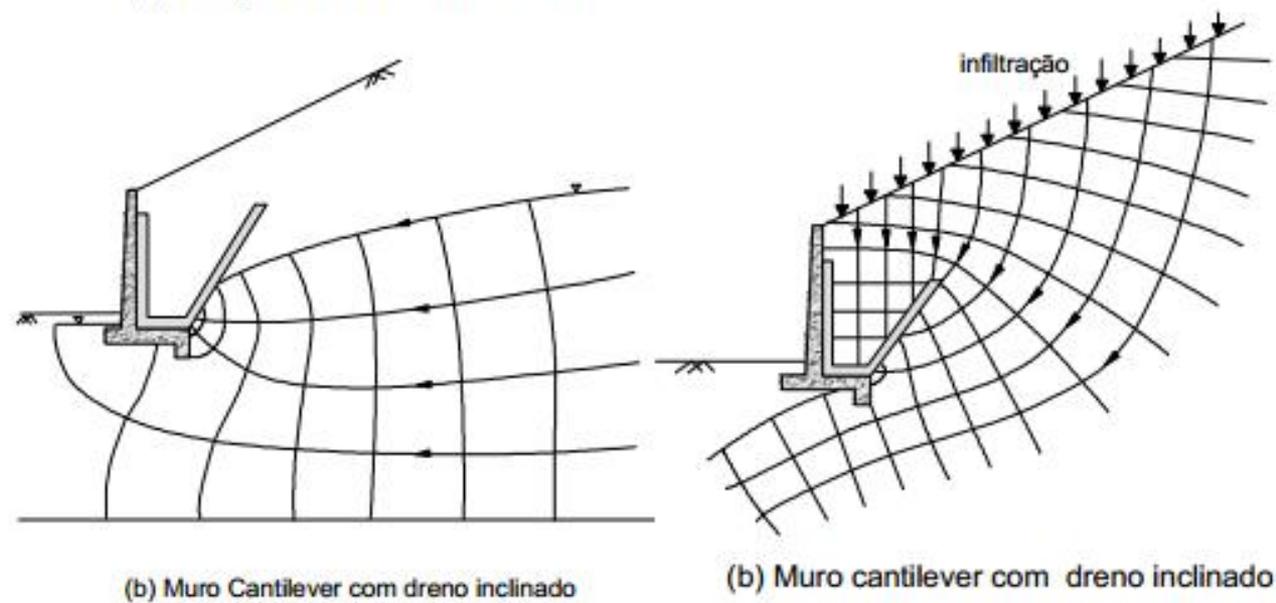
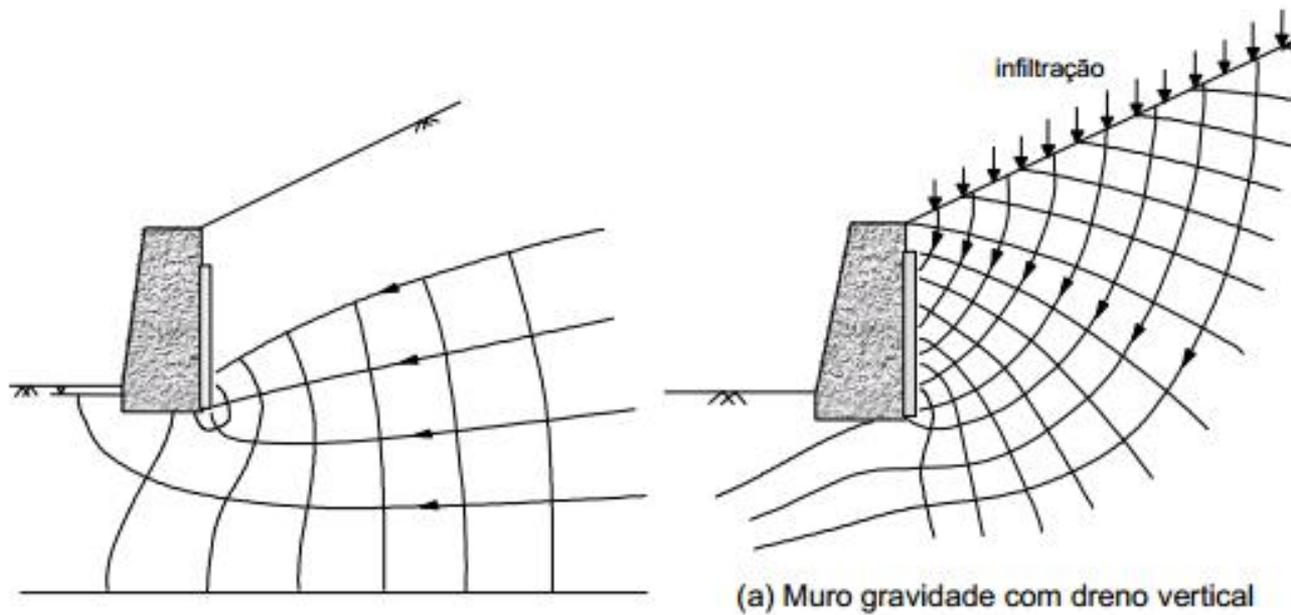
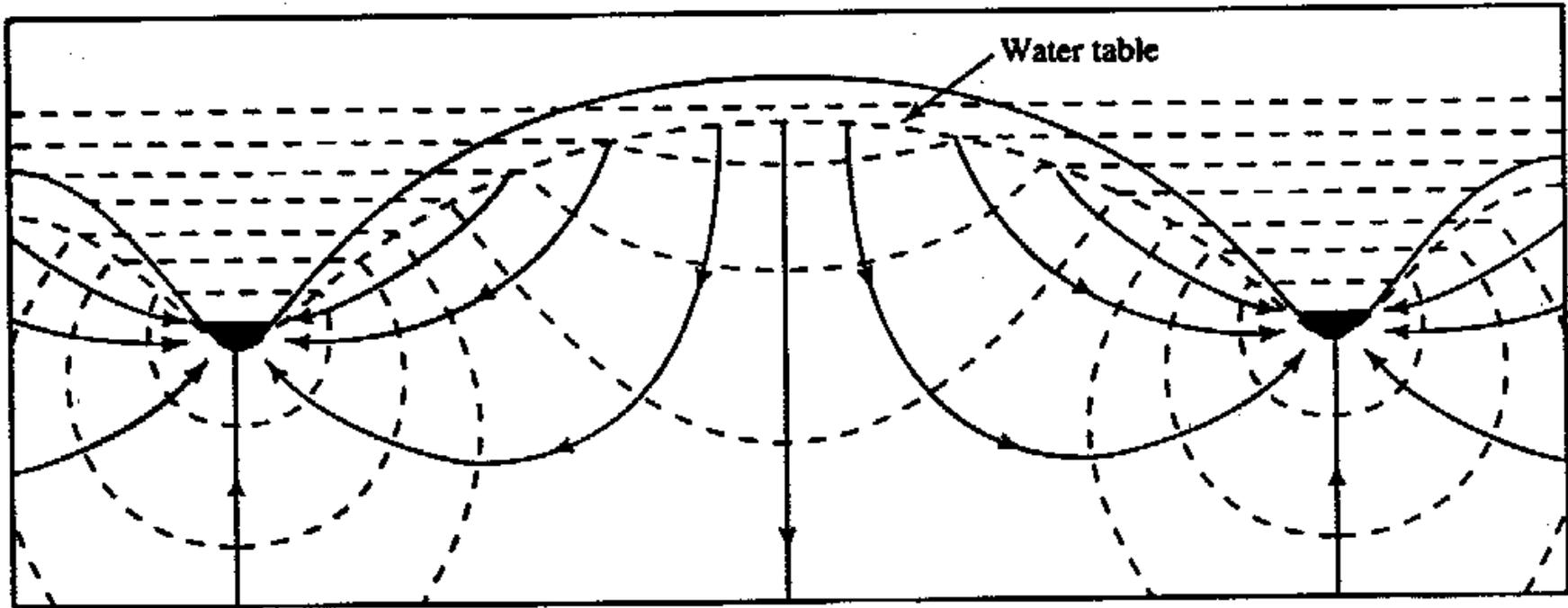
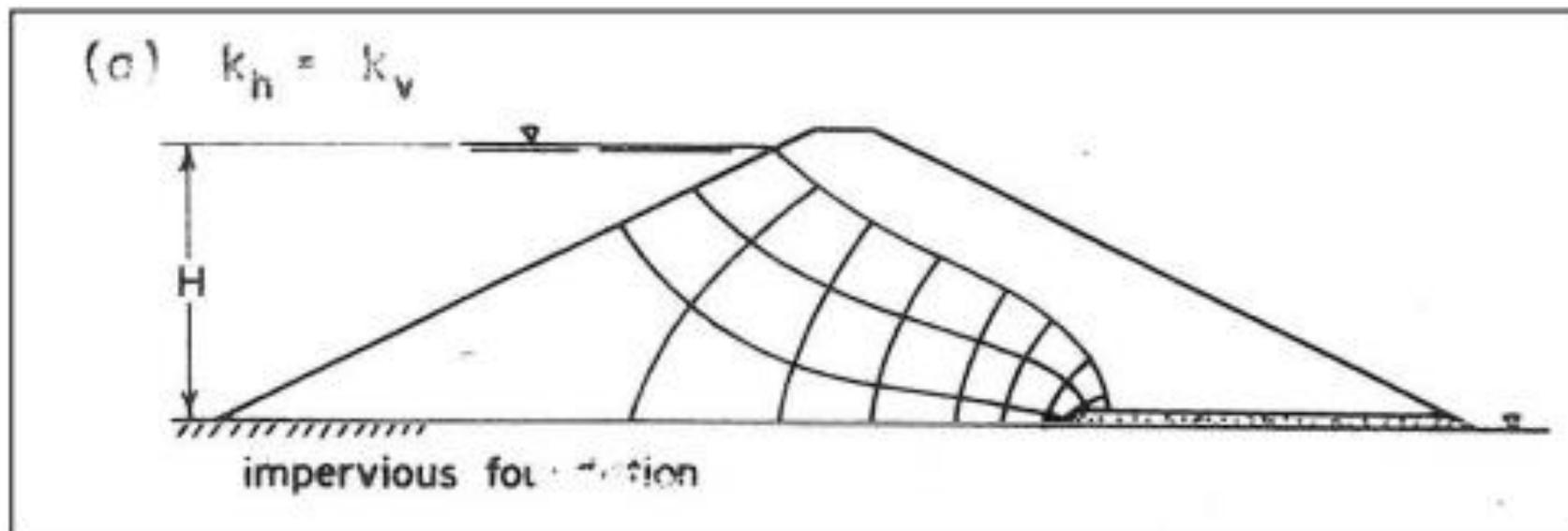


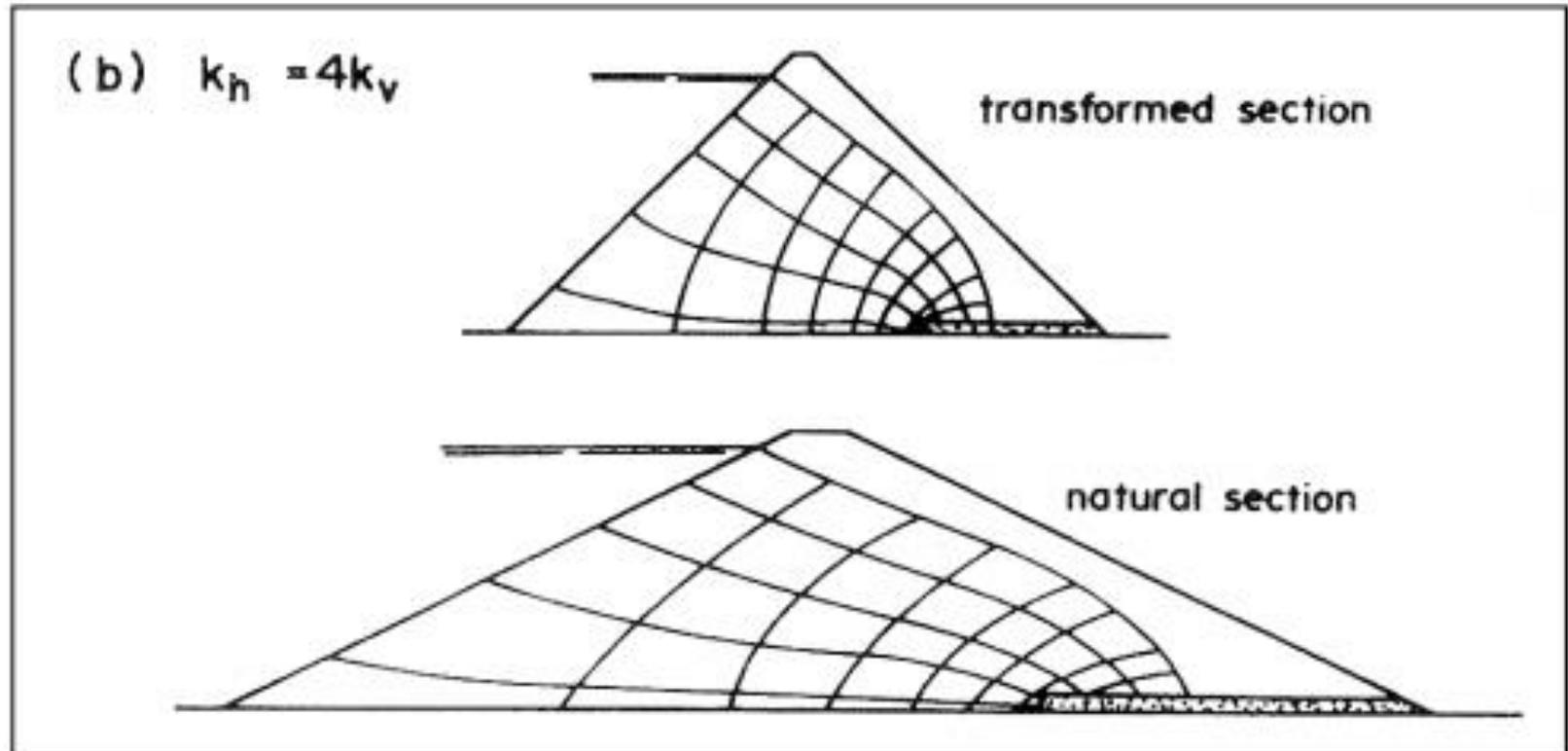
Figura 89. Redes de fluxo em muros



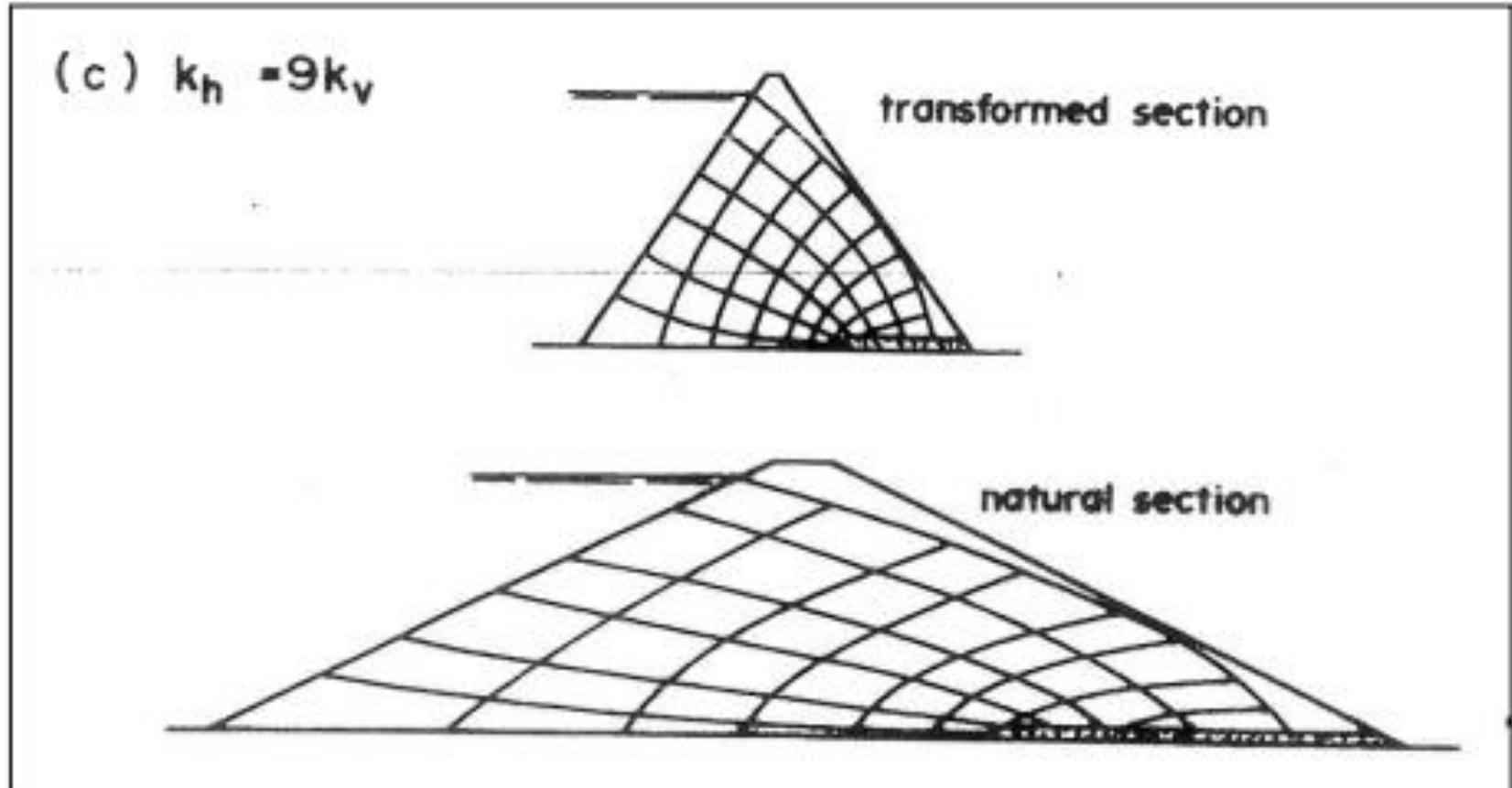
Influência da Anisotropia na Rede de Fluxo Através da Barragem

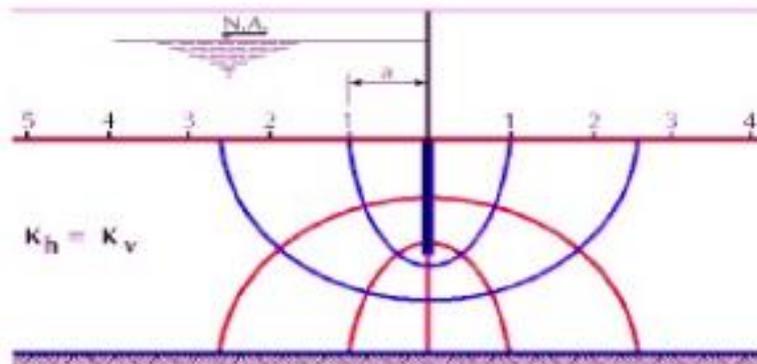


Influência da Anisotropia na Rede de Fluxo Através da Barragem

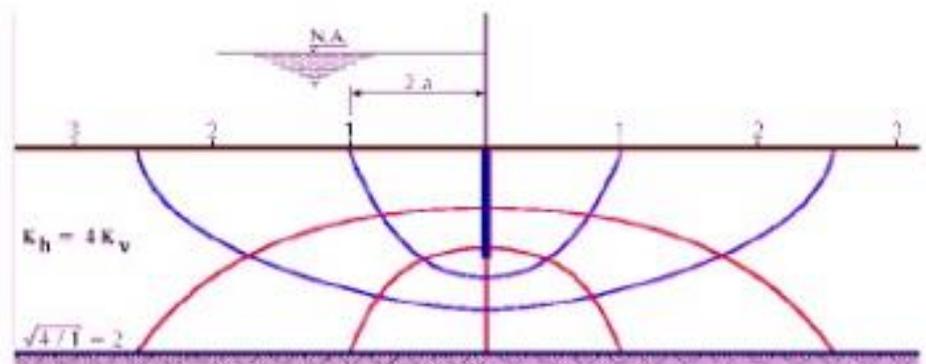


Influência da anisotropia na rede de fluxo através da barragem

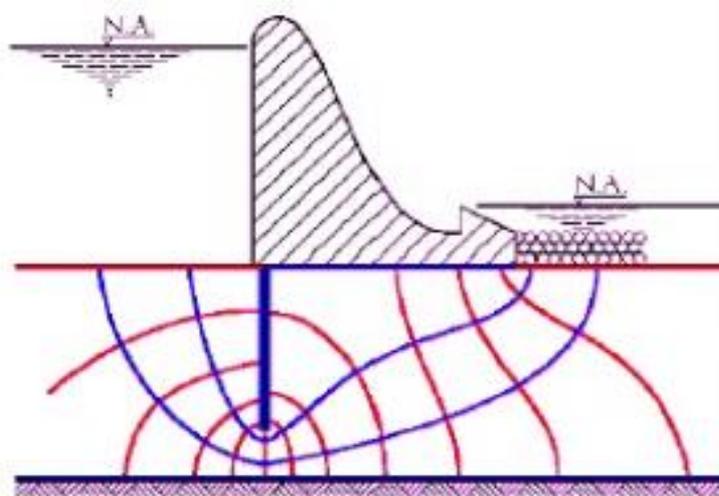




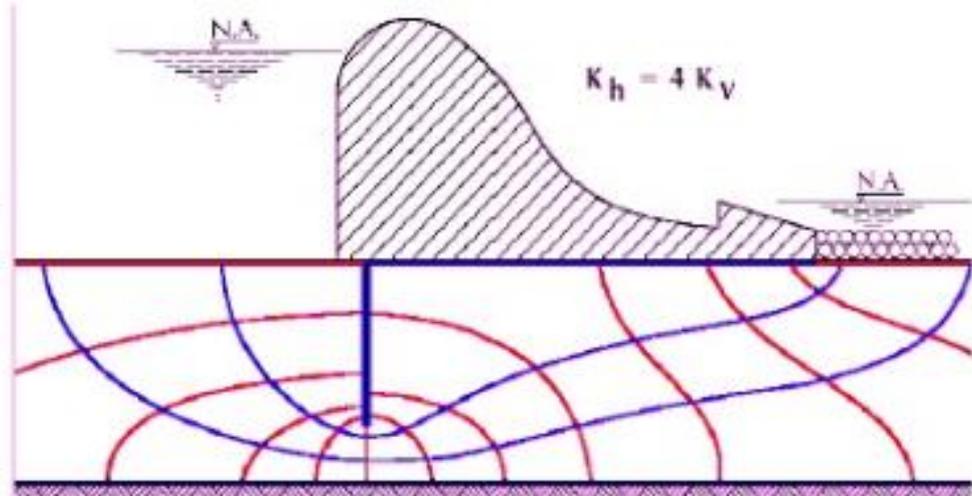
(a) seção transformada



(b) Seção real



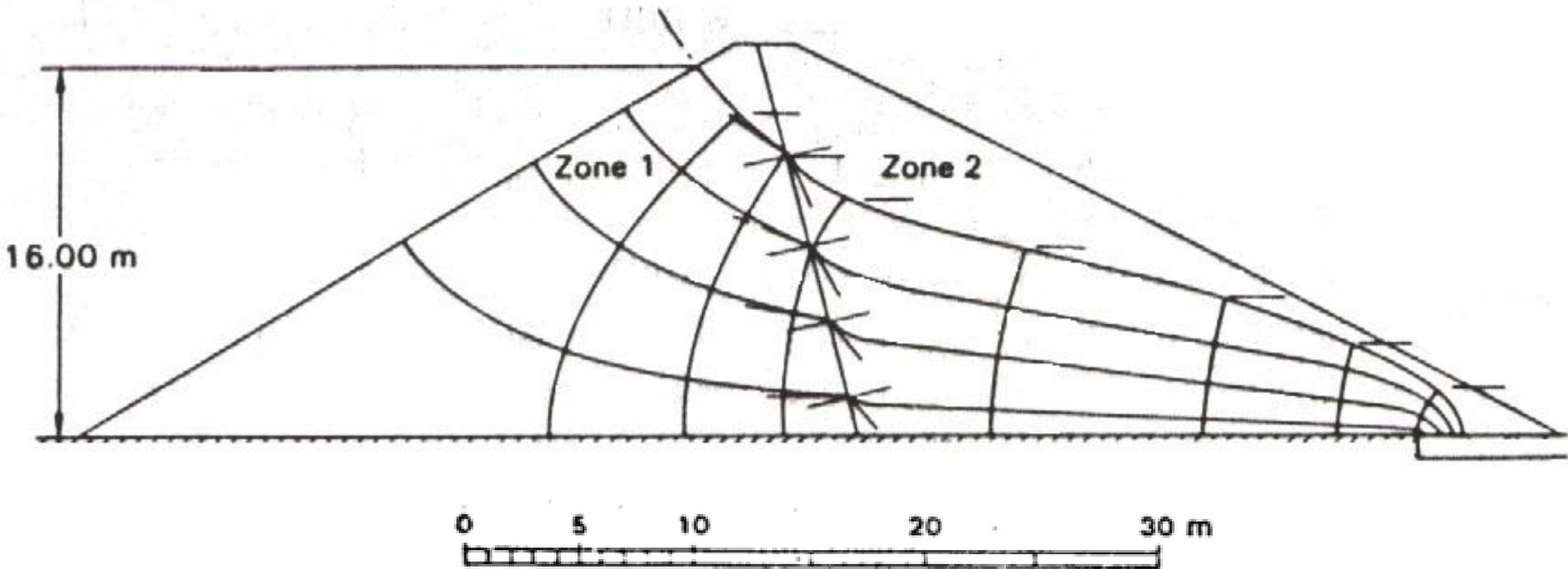
(a) seção transformada

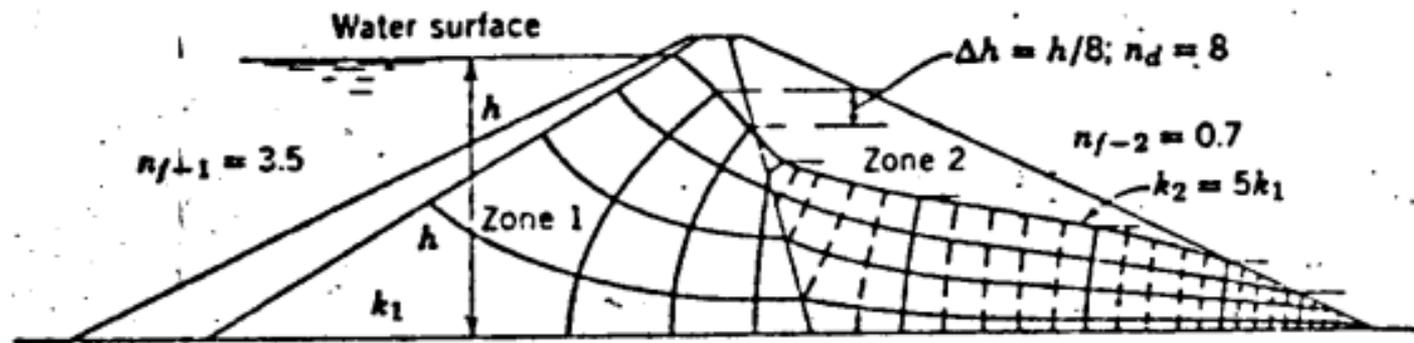


(b) Seção real

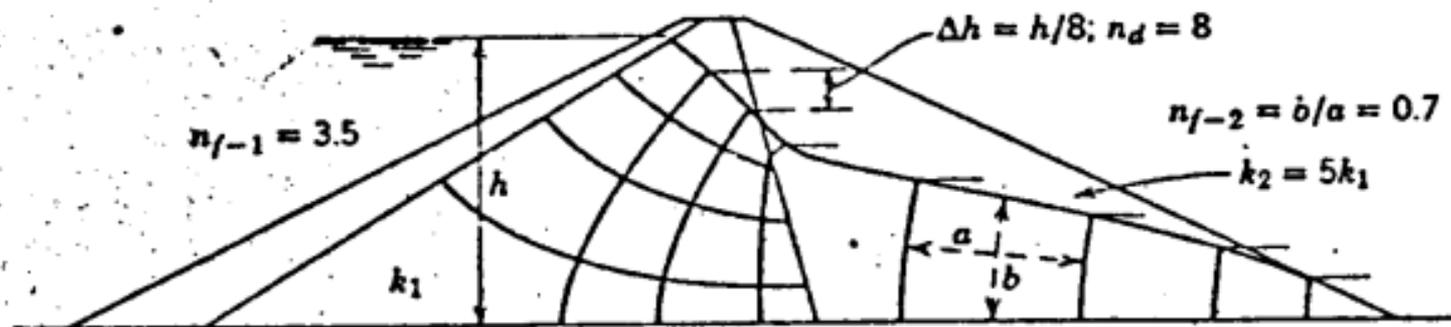
Figura 3.20 – Exemplos de rede de fluxo em meios anisotrópicos. Modificado de Stancati (1984).

Influência da heterogeneidade na rede de fluxo através da barragem

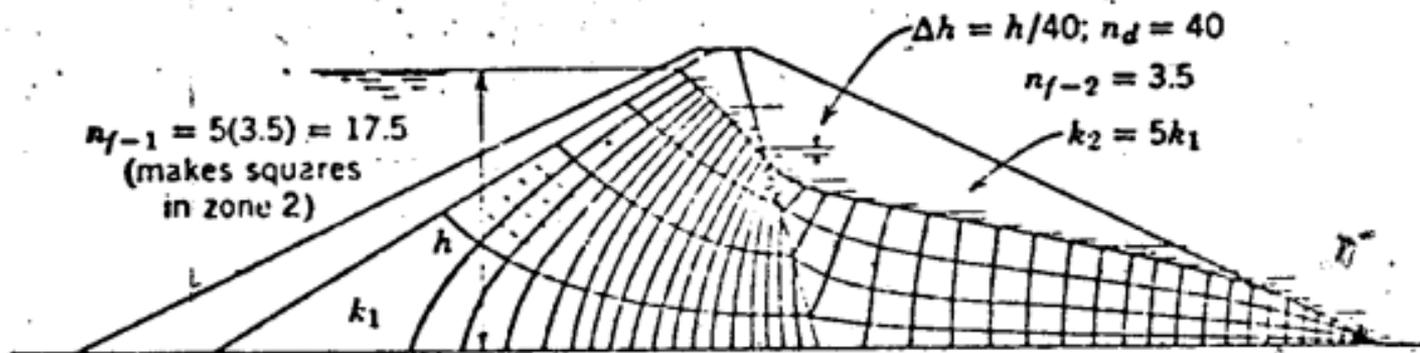




(a)



(b)



(c)

Figure 91 – Three forms of one flow net

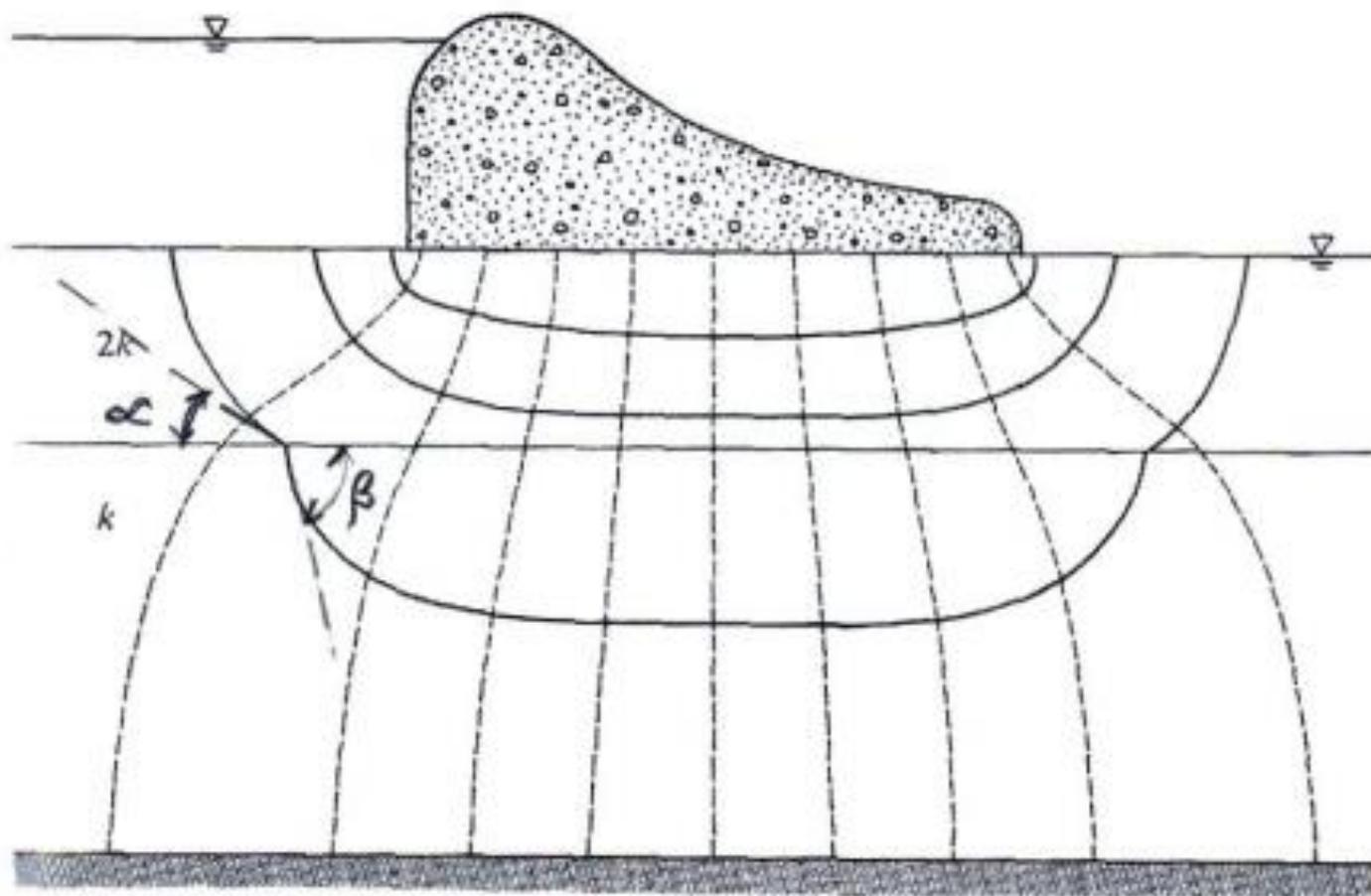


Figura 81. Fundação Heterogenea

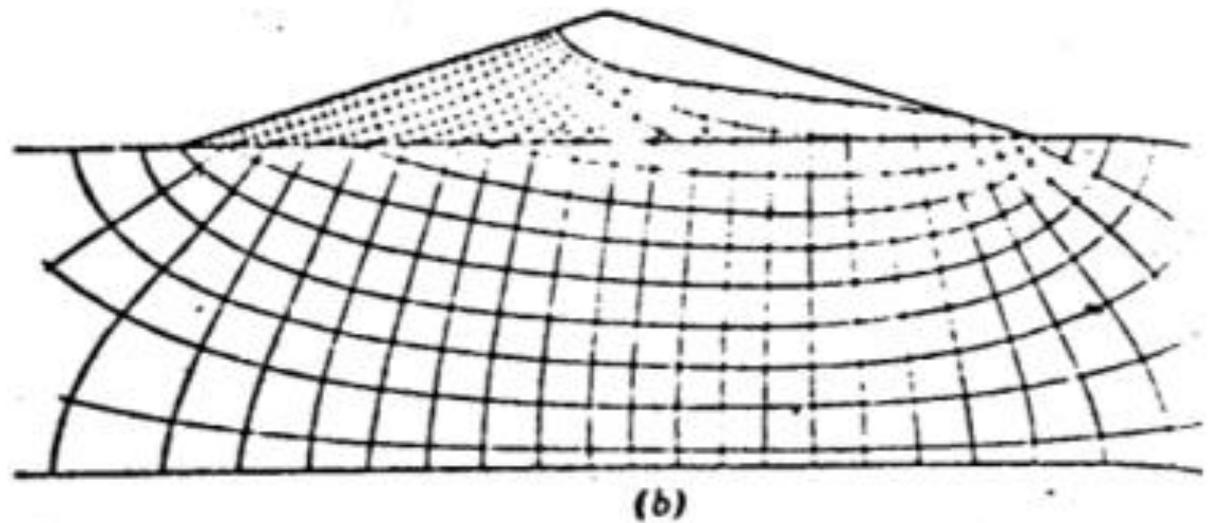
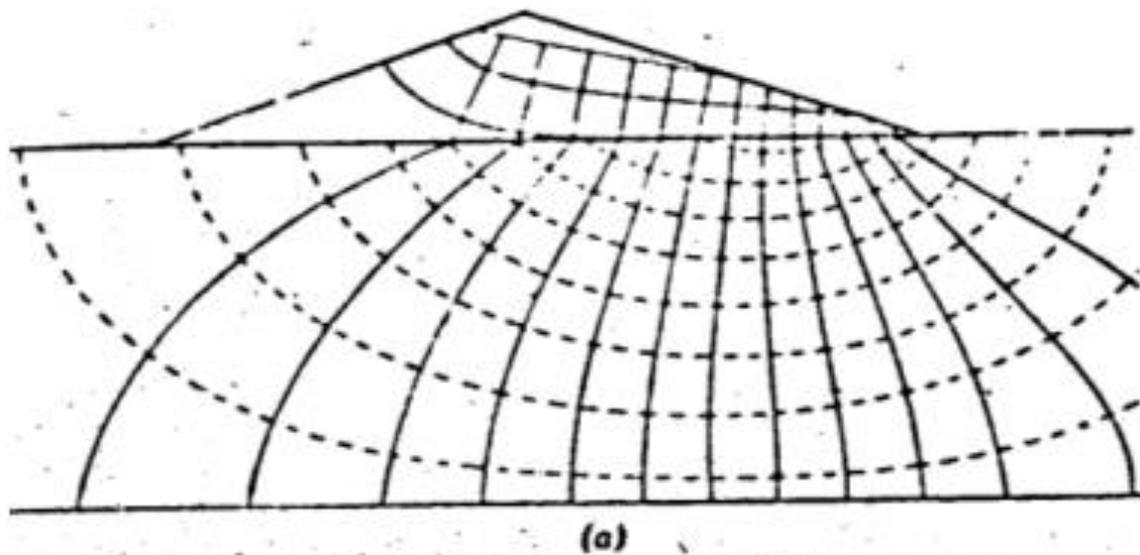
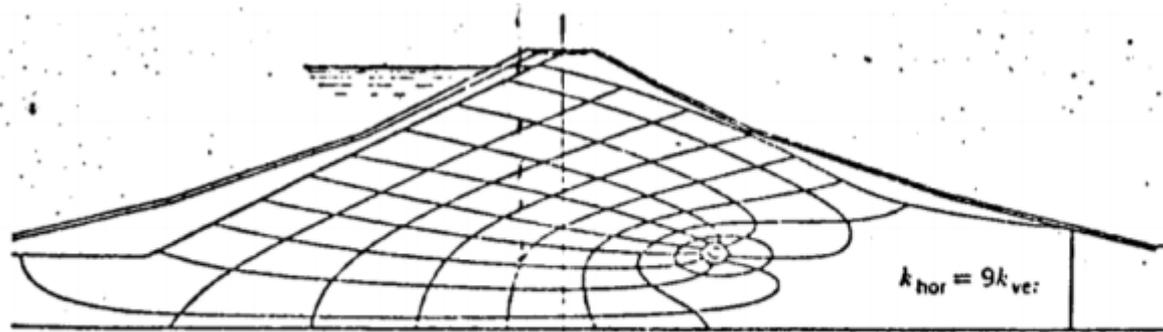
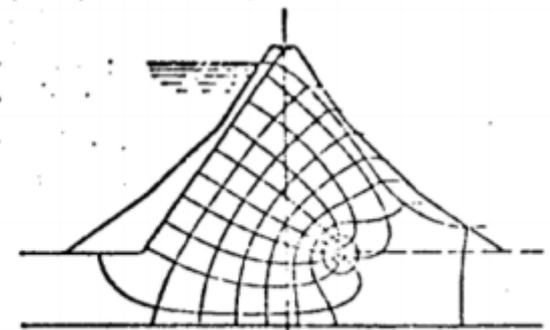


Figura 93 – Typical flow nets through dams of different permeability (after Cedergren, Ref.214). (a) Permeability of embankment 10 times the permeability of foundation. (b) Permeability of embankment 0,1 times the permeability of foundation.

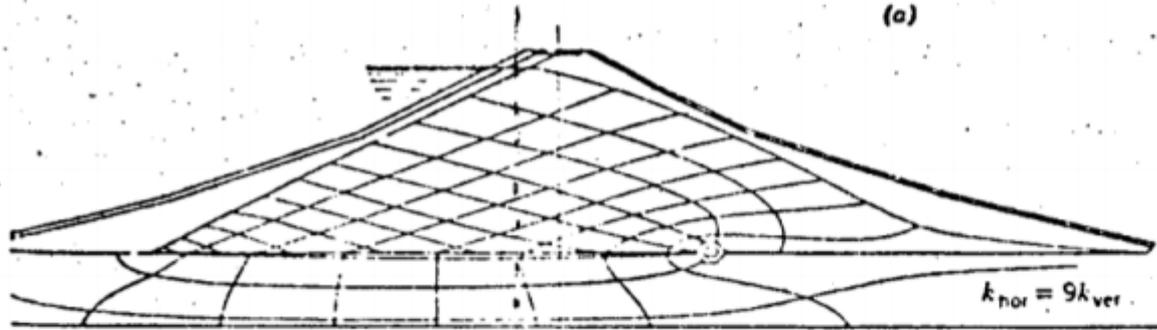


True Section

(a)

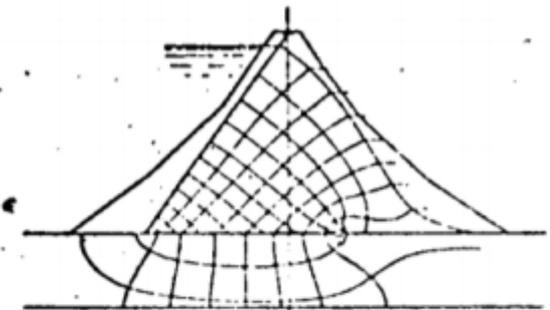


Transformed Section



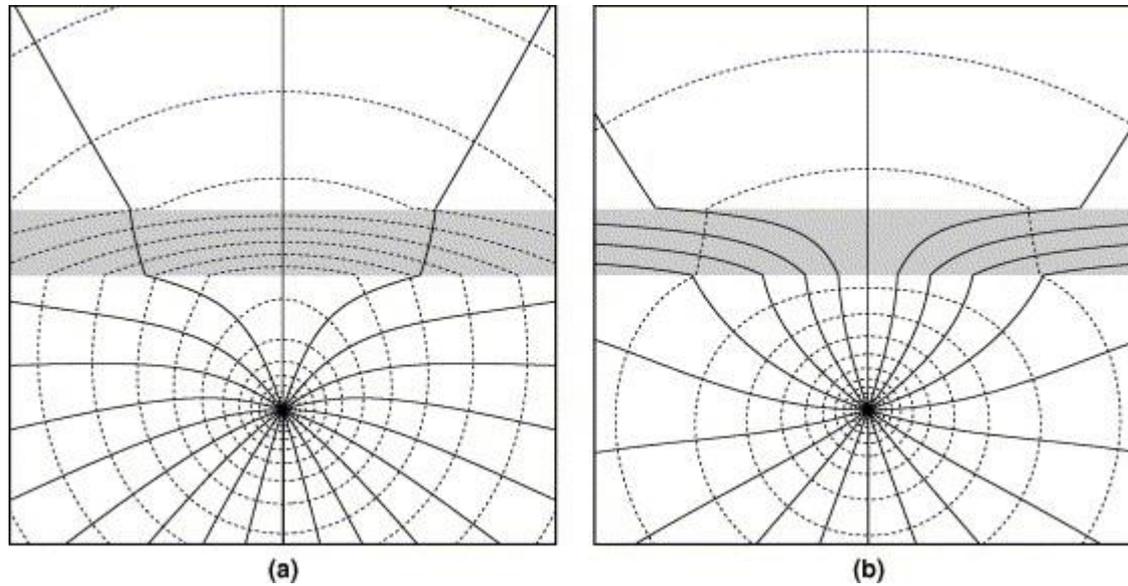
True Section

(b)



Transformed Section

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.

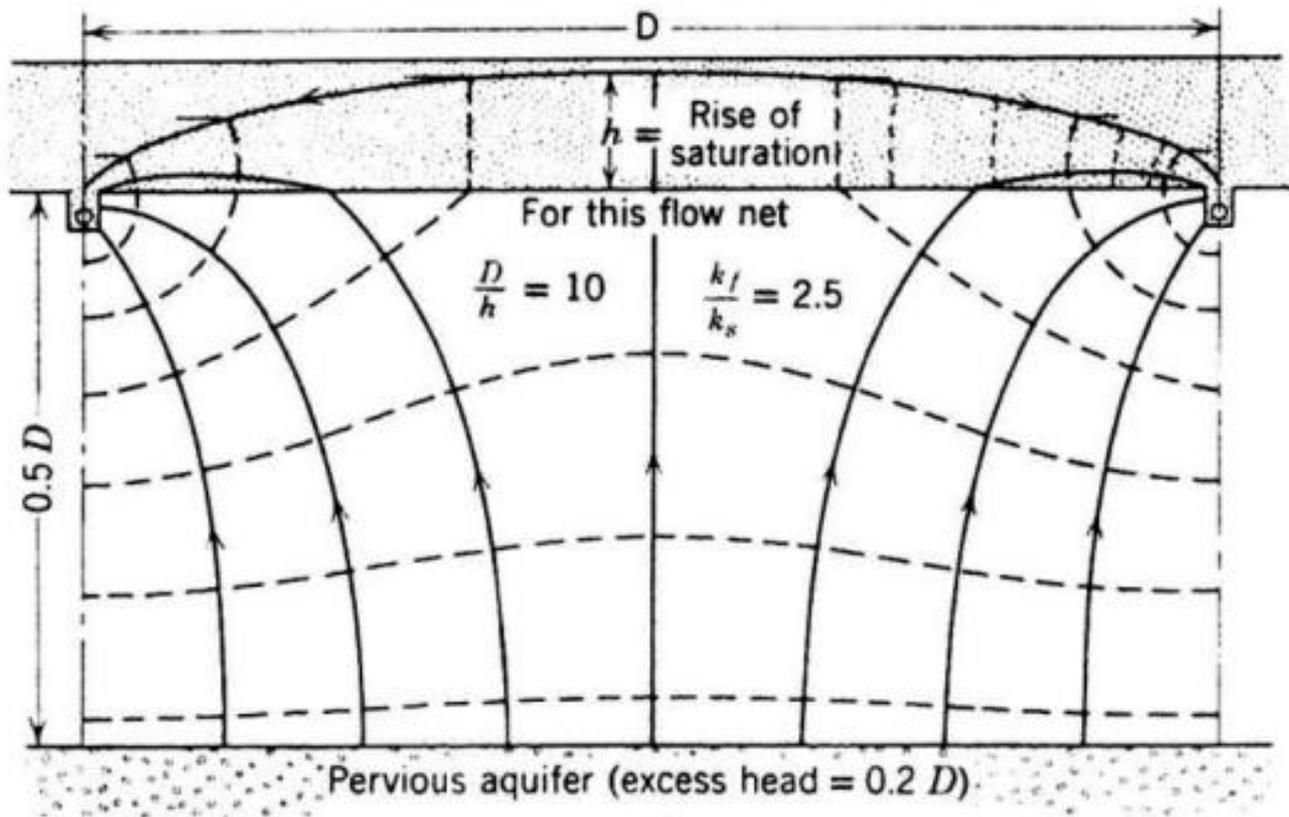


Analytical solutions for flow to a well through a fault

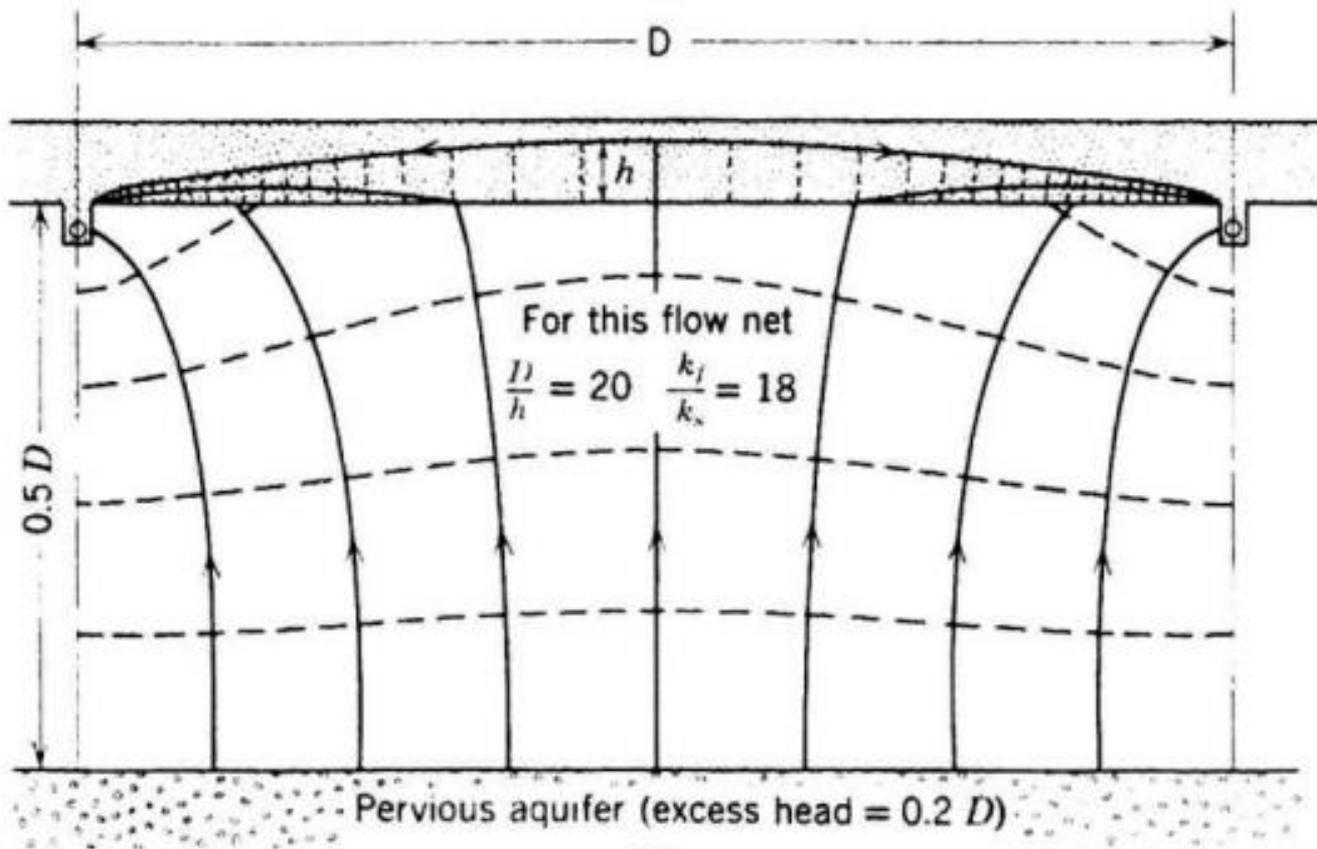
Erik I. Anderson  

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Received 23 August 2005. Revised 20 December 2005. Accepted 20 December 2005. Available online 14 February 2006.



(a)



(b)

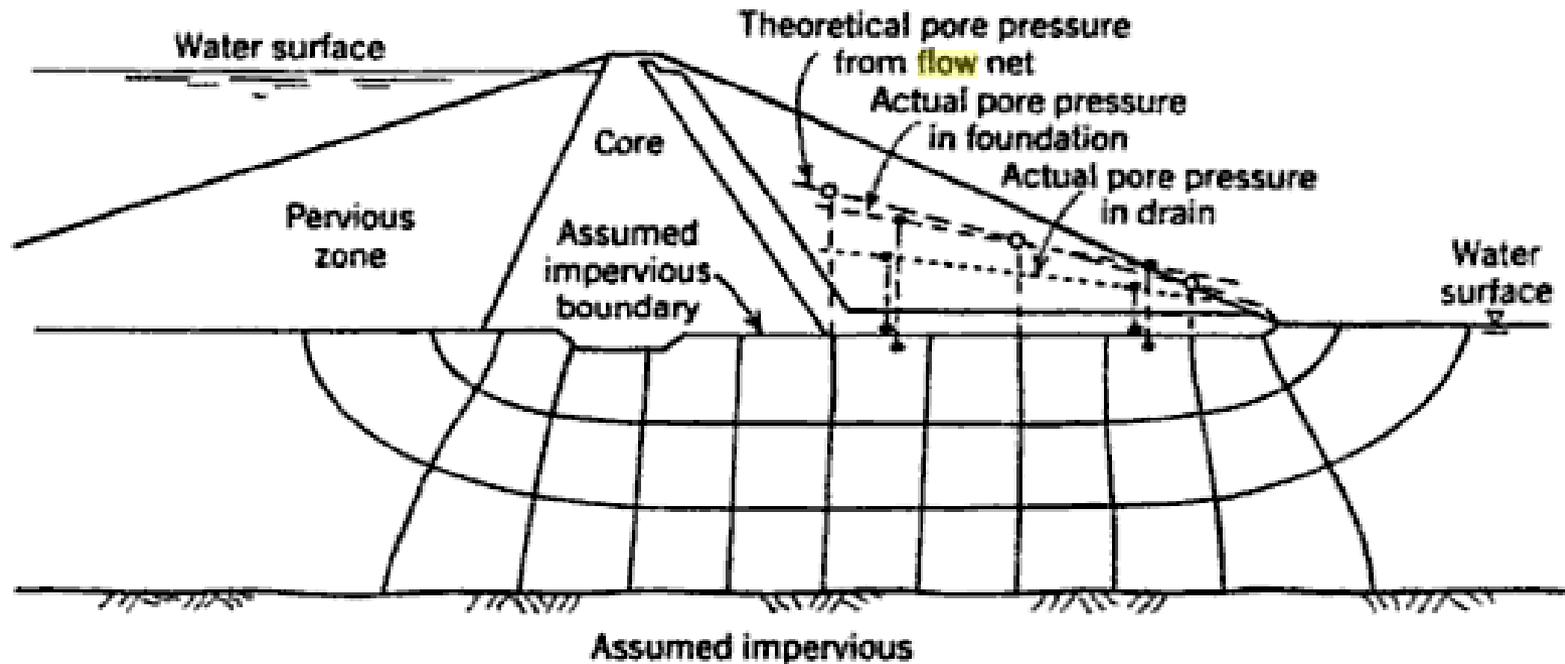
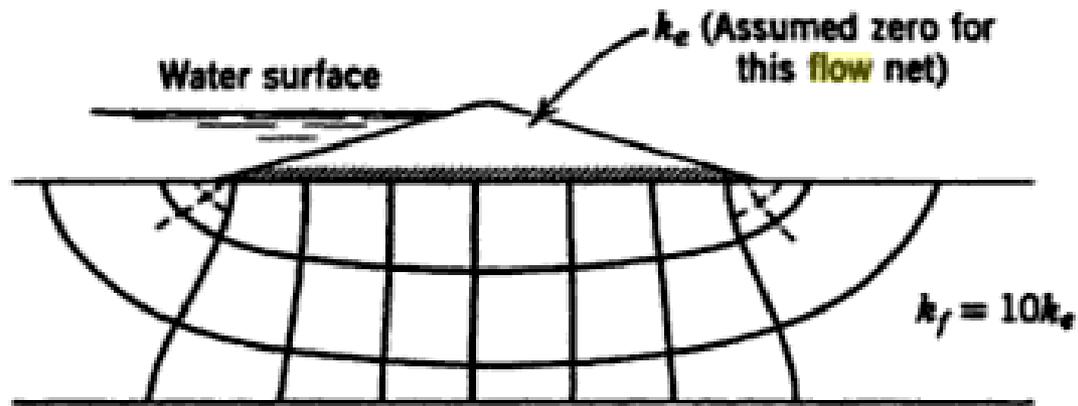
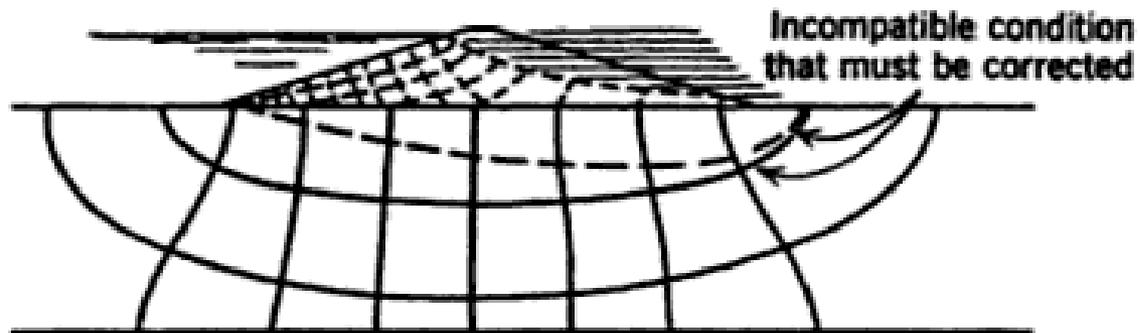


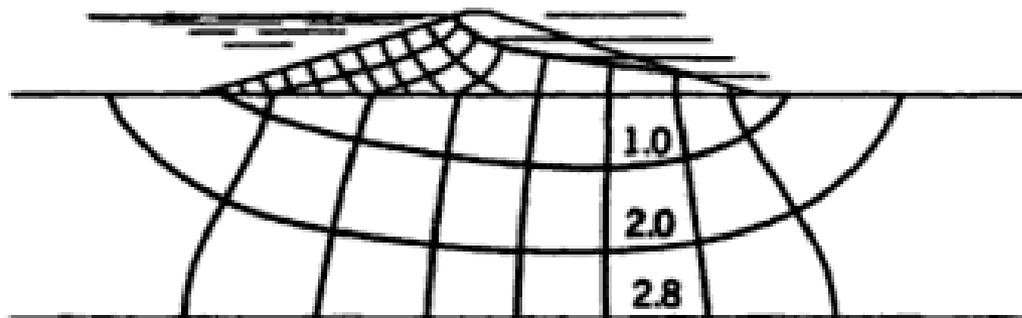
FIG. 5.10 Uplift pressures that built up under an earth dam with an expensive but ineffective drain were not measurably affected by the drain. (From *Embankment-Dam Engineering, Casagrande Volume*, Wiley, New York, 1973, p. 42).



(a)



(b)



(c)