



flow nets examples



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0 Resenhas

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Seepage, Drainage, and Flow Nets

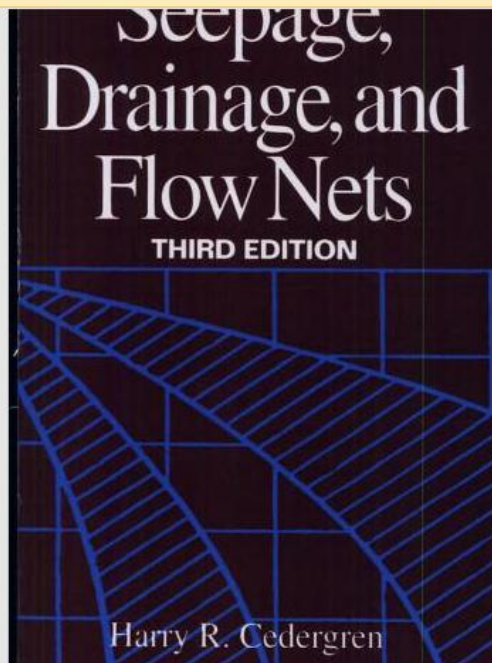
Por Harry R. Cedergren

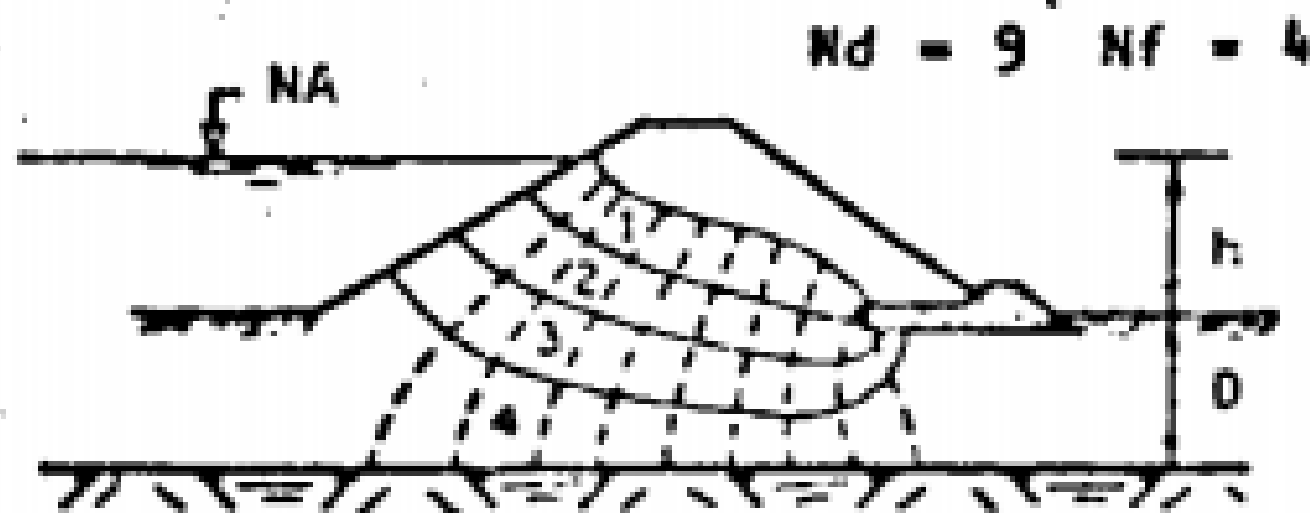
flow nets examples

Ir

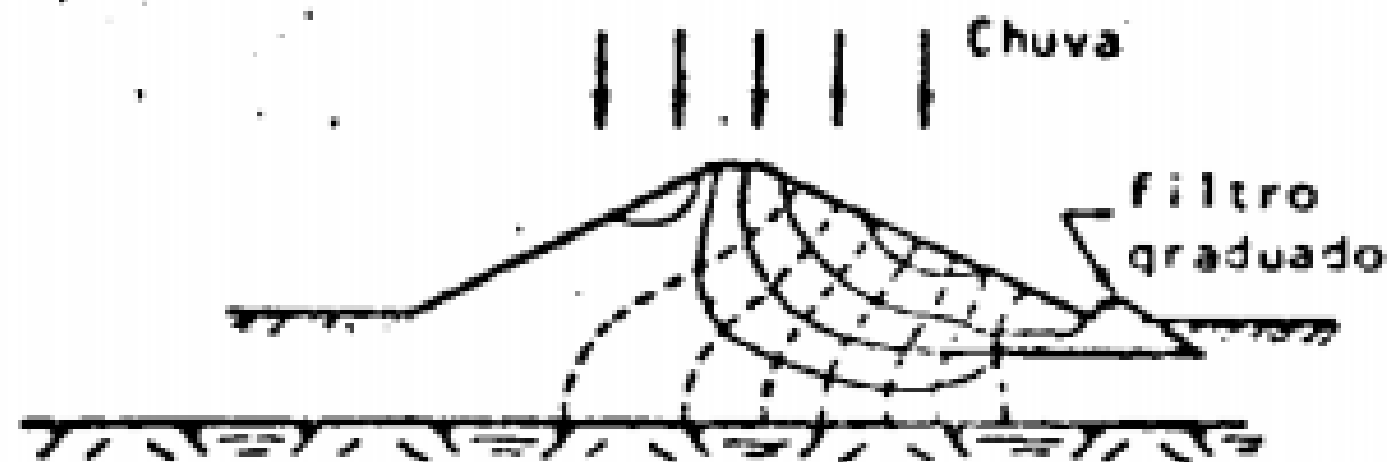
Resultado 1 de 1 neste livro para flow nets examples

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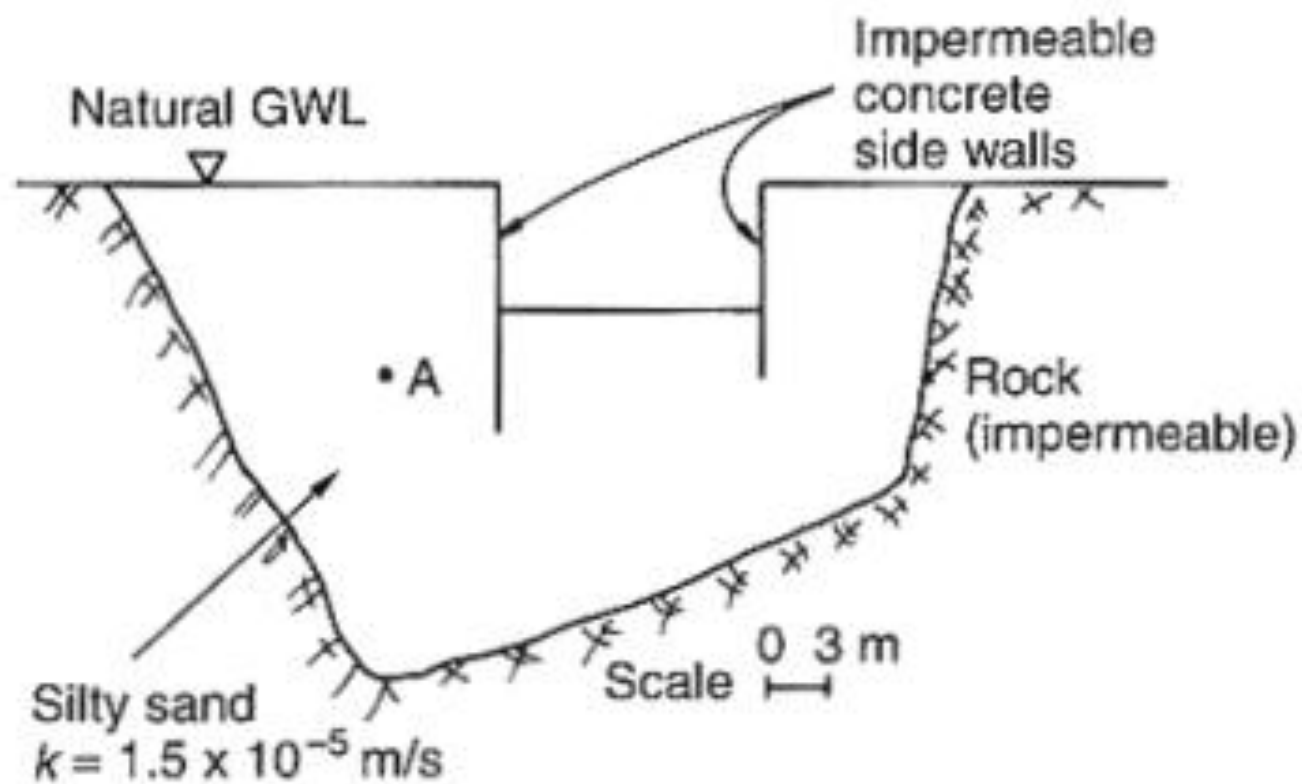




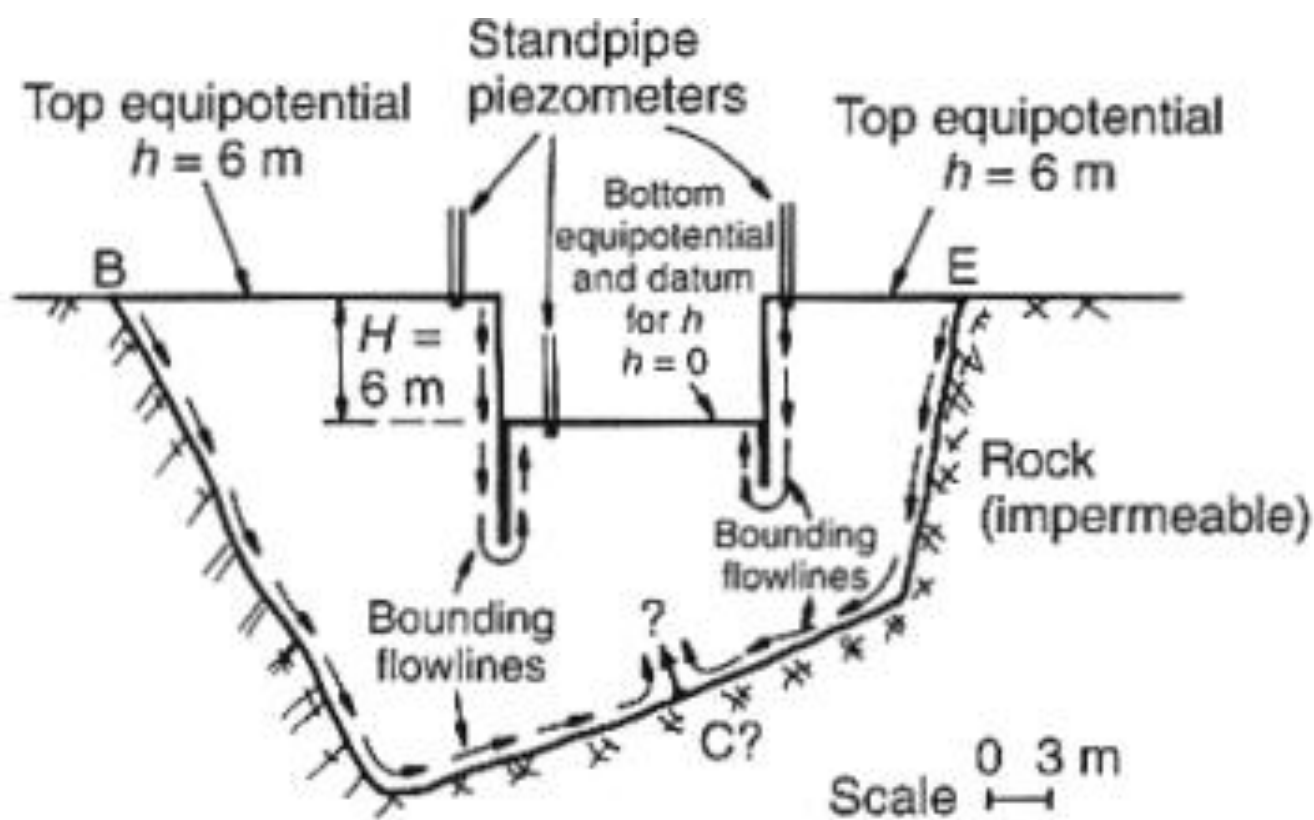
e) Barragem de Terra



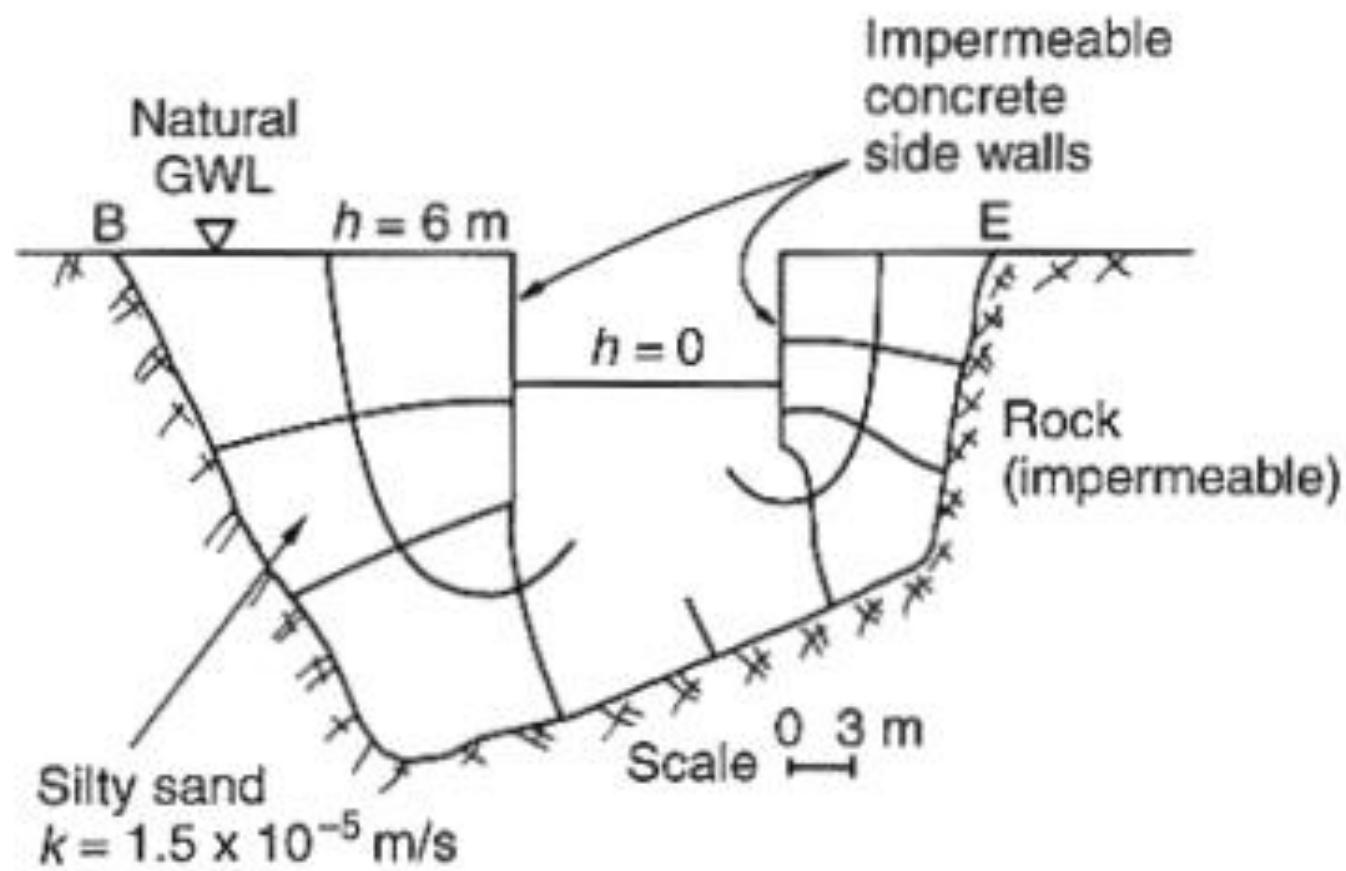
f) Barragem de Terra sob Chuvas Copiosas



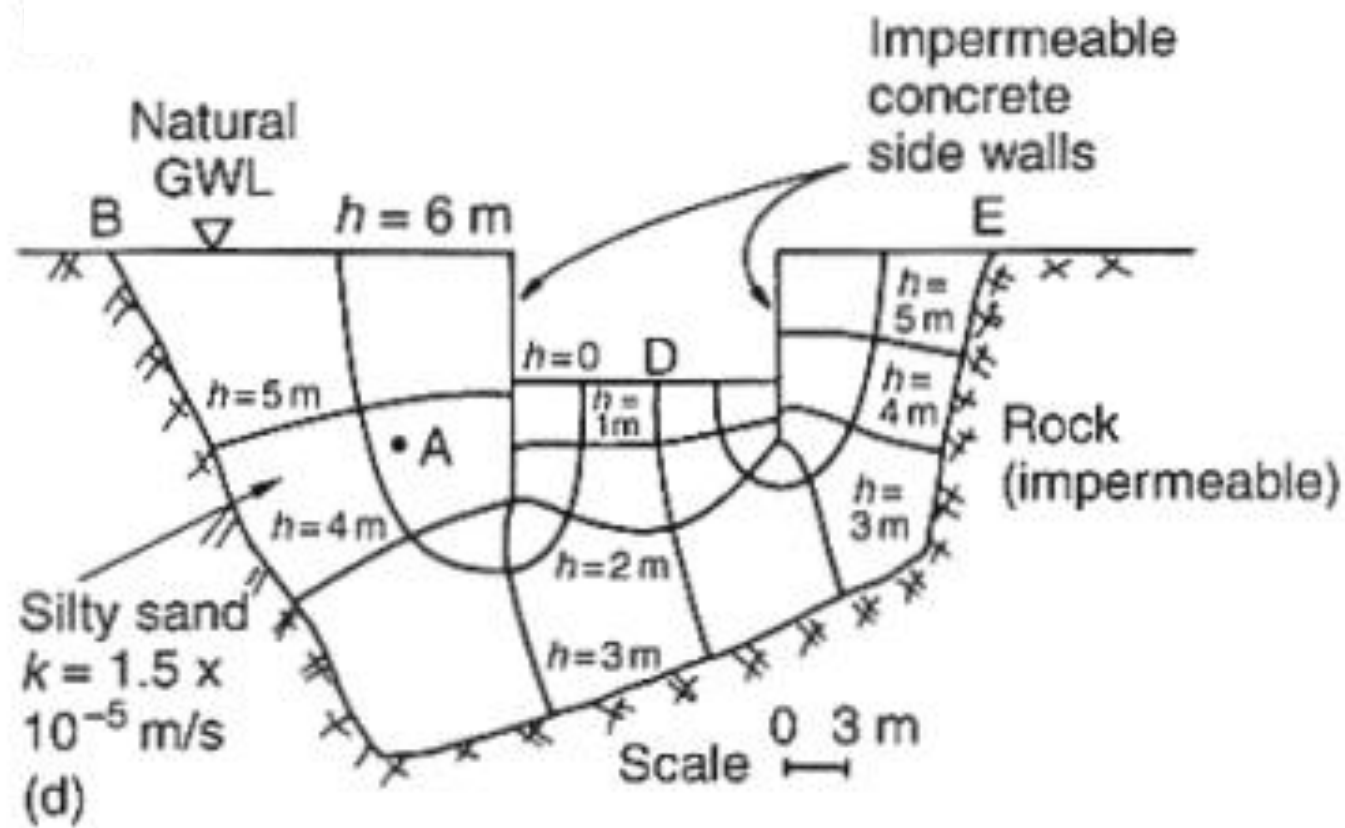
(a)



(b)

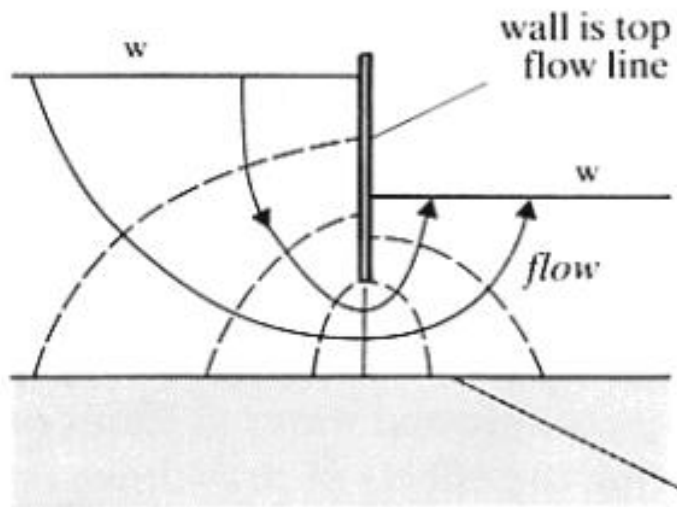


(c)



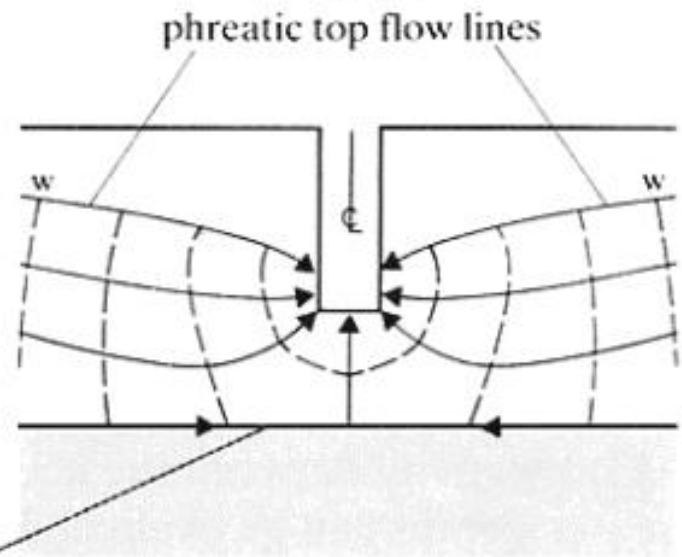
CONFINED FLOW

Wall

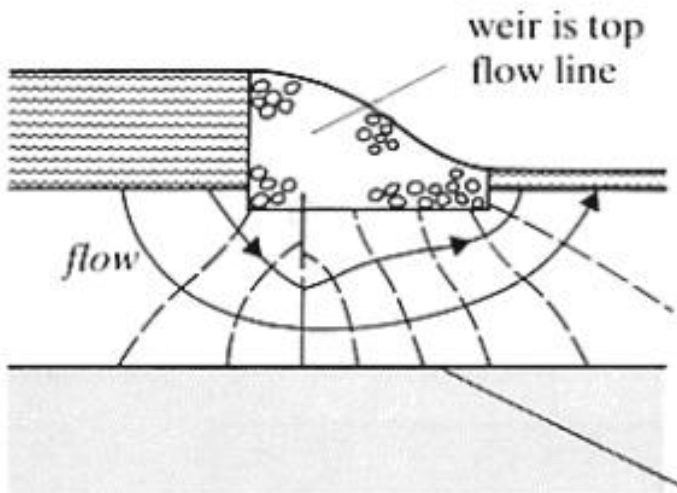


UNCONFINED FLOW

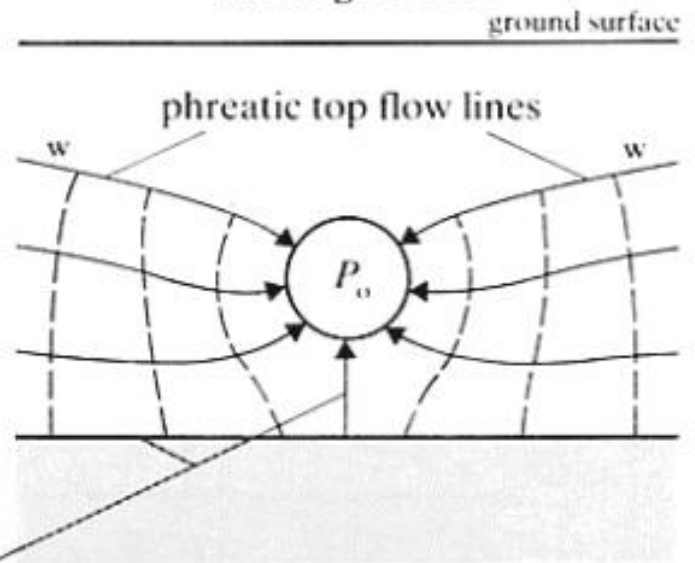
Trench

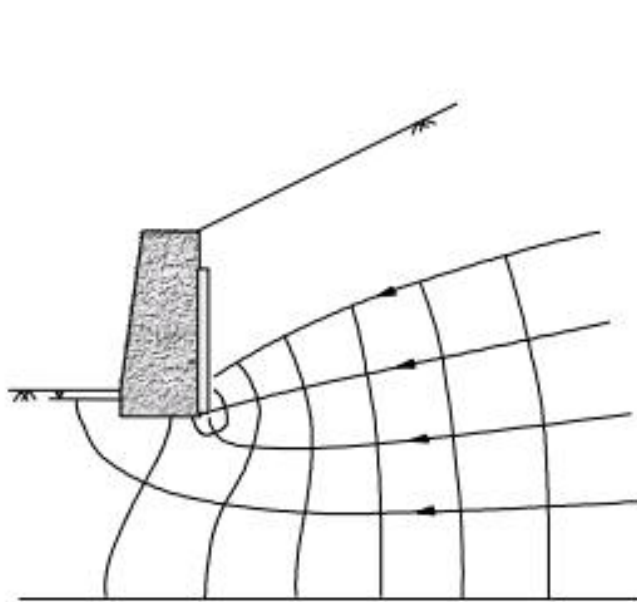


Weir

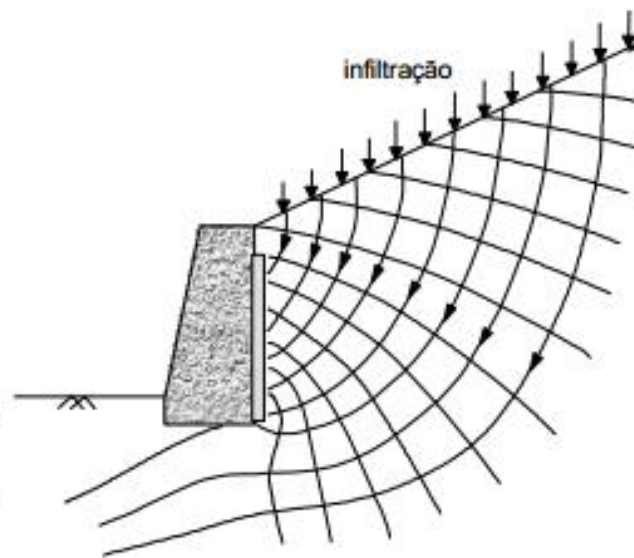


Drainage tunnel

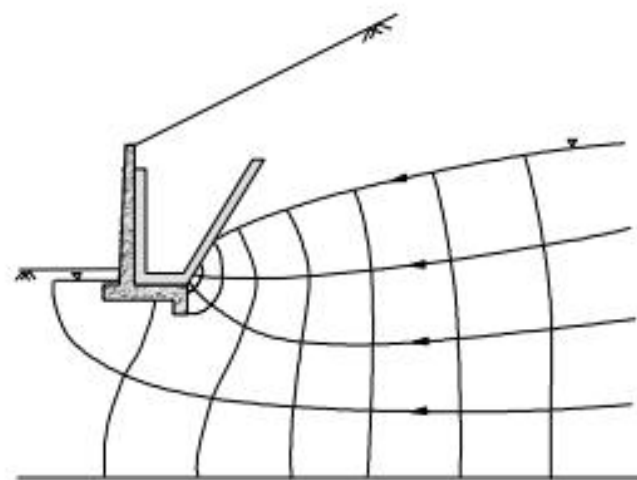




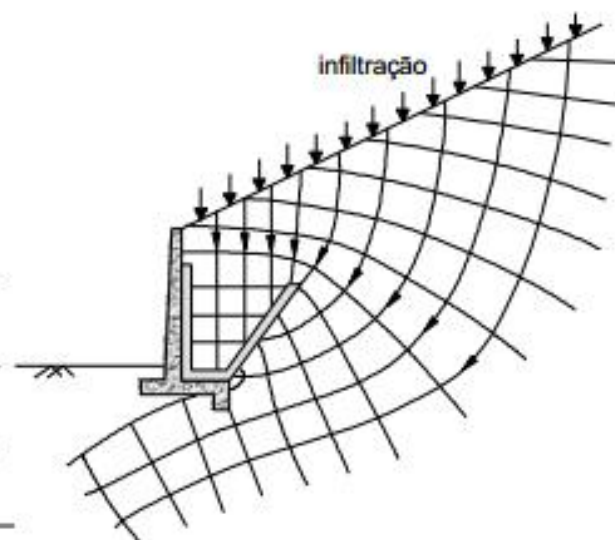
(a) Muro gravidade com dreno vertical



(a) Muro gravidade com dreno vertical



(b) Muro Cantilever com dreno inclinado



(b) Muro cantilever com dreno inclinado

Figura 89. Redes de fluxo em muros

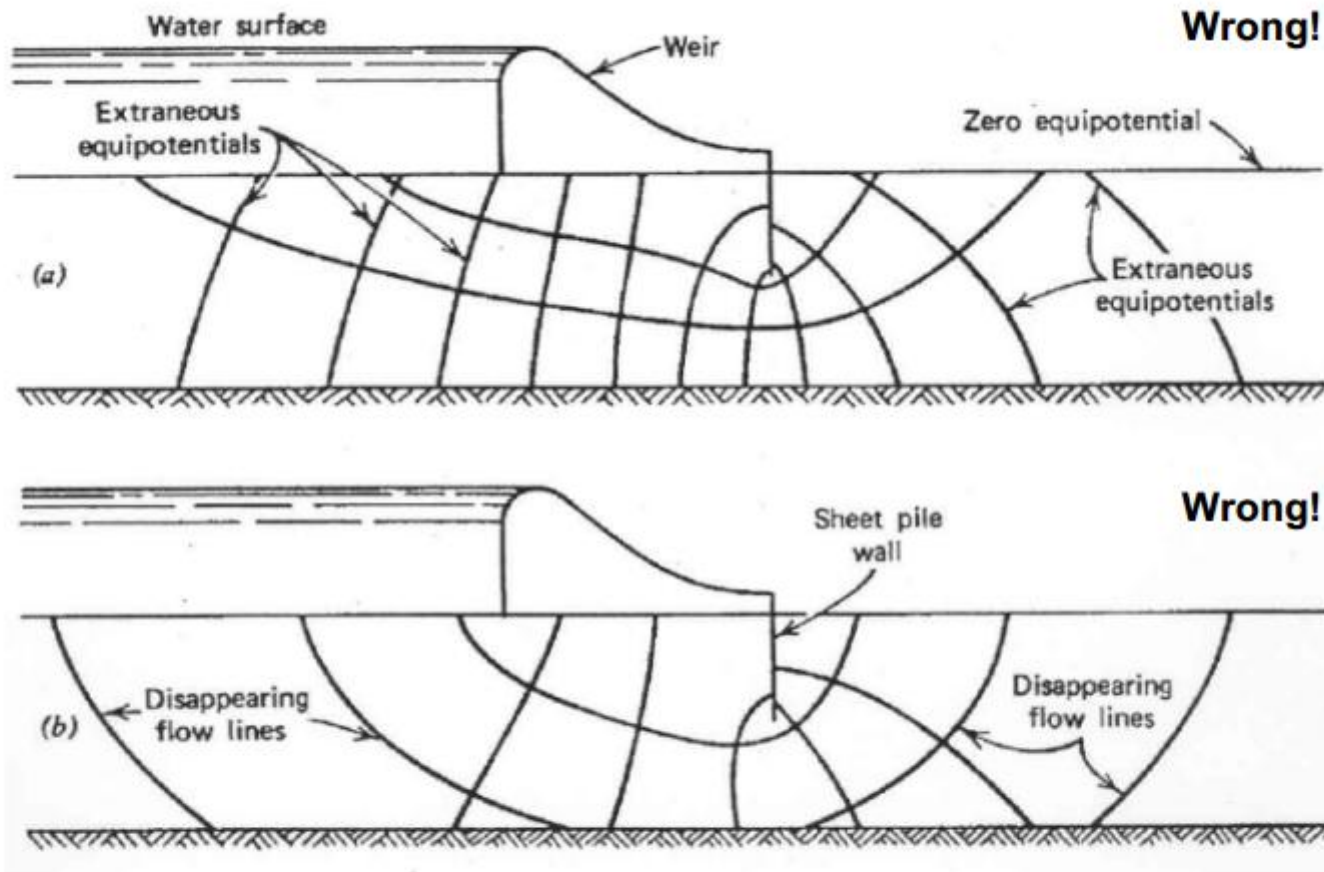


Figure 9. Some common errors include (a) equipotentials entering or exiting a no-flow boundary, and (b) disappearing flow lines.

EXAMPLES:



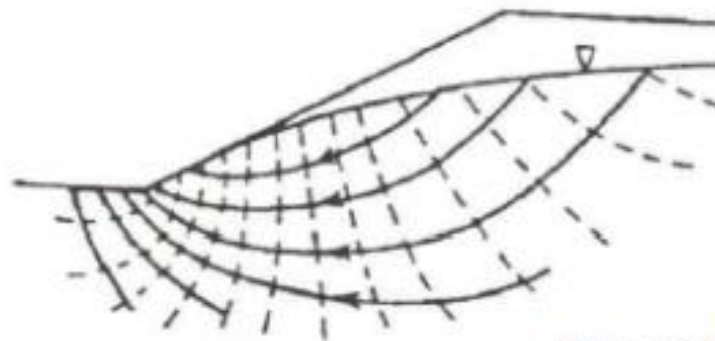
Wrong!

(a)



Wrong!

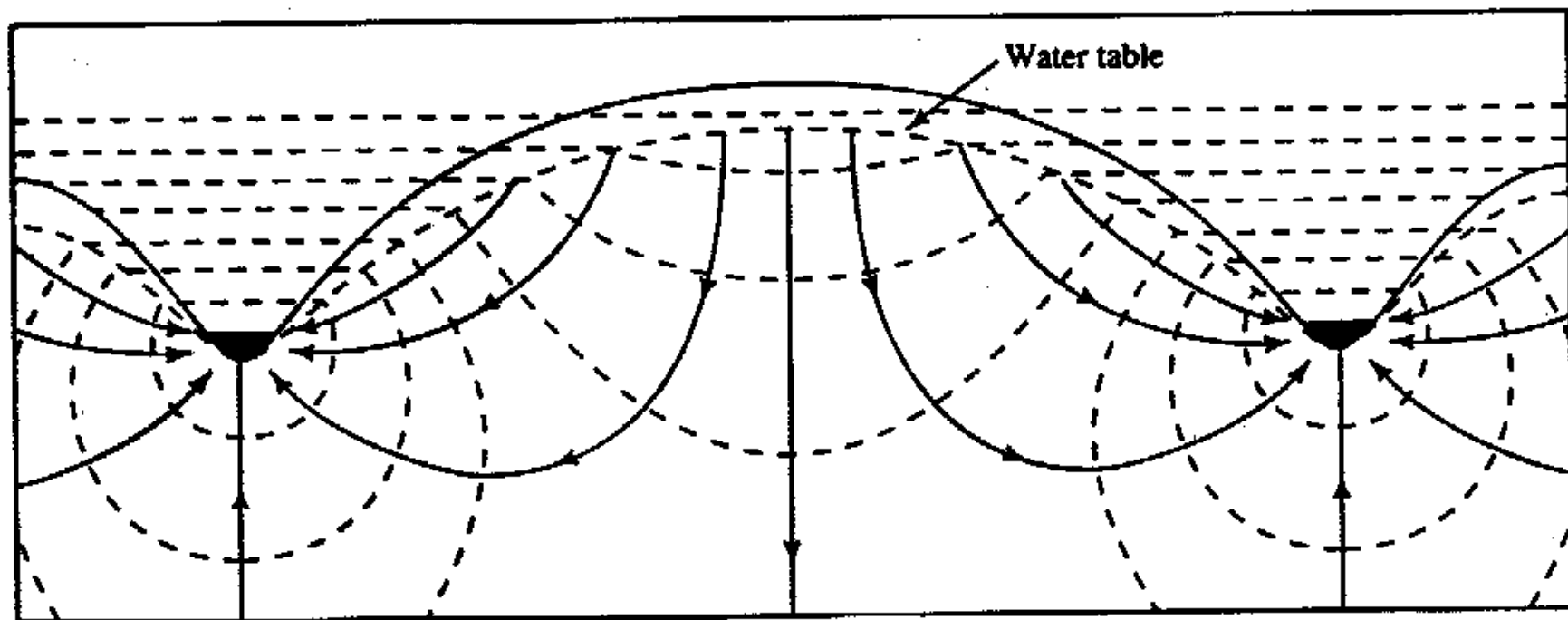
(b)



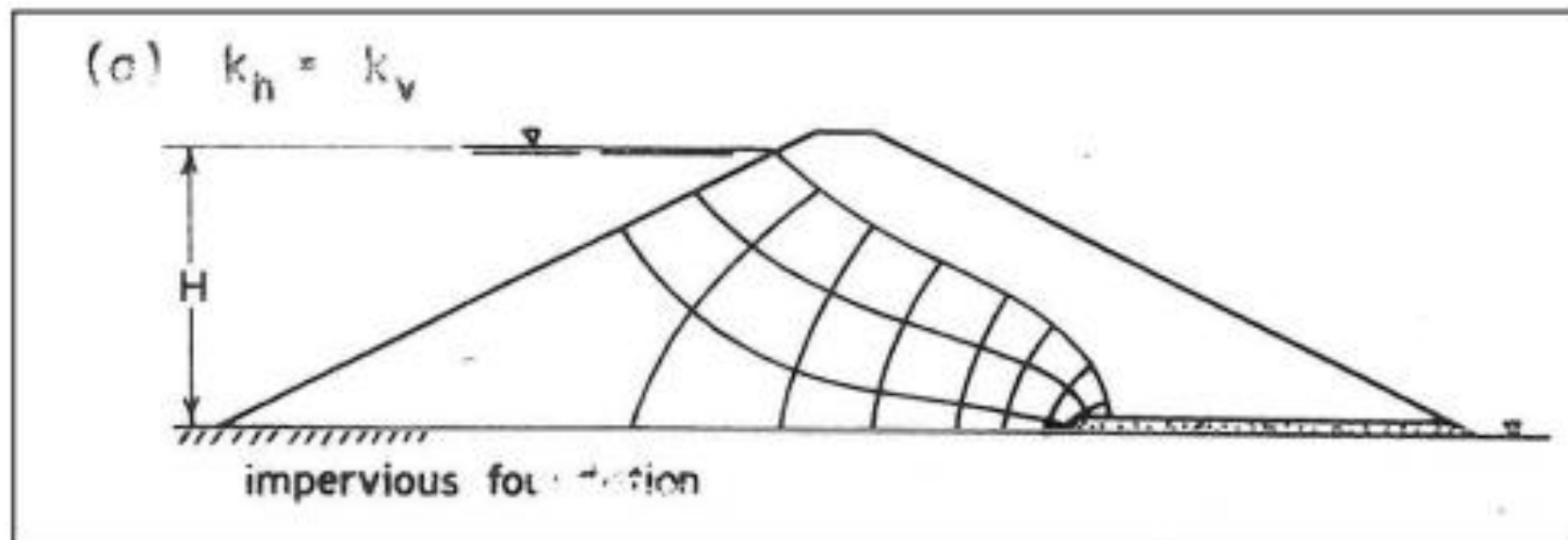
Correct!

(c)

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

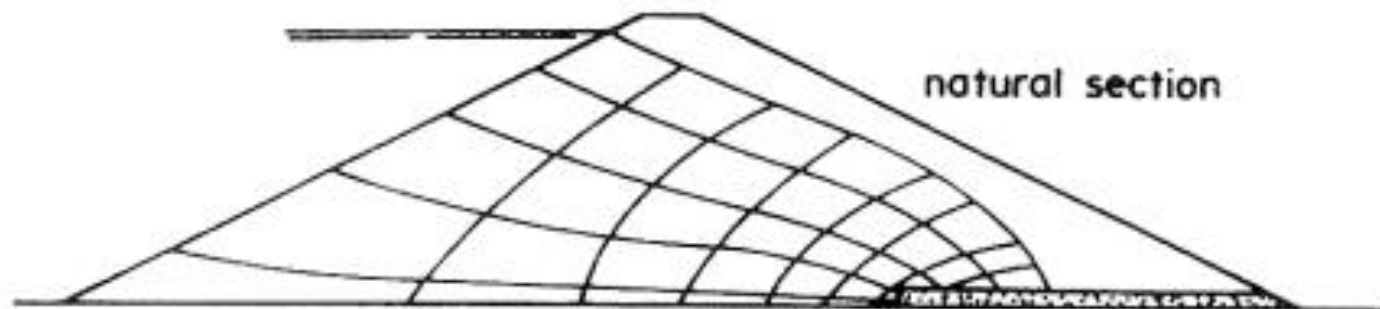
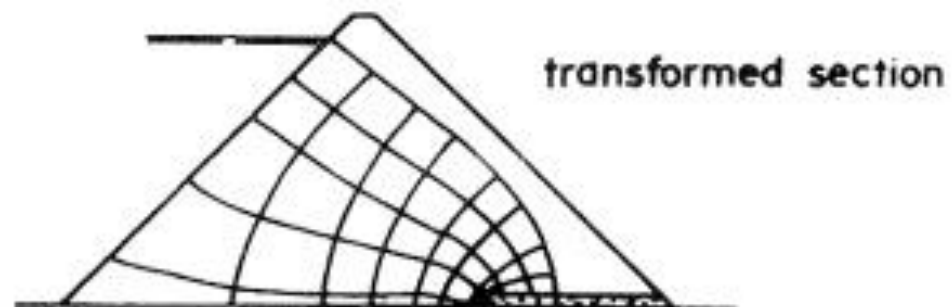


Influência da Anisotropia na Rede de Fluxo Através da Barragem

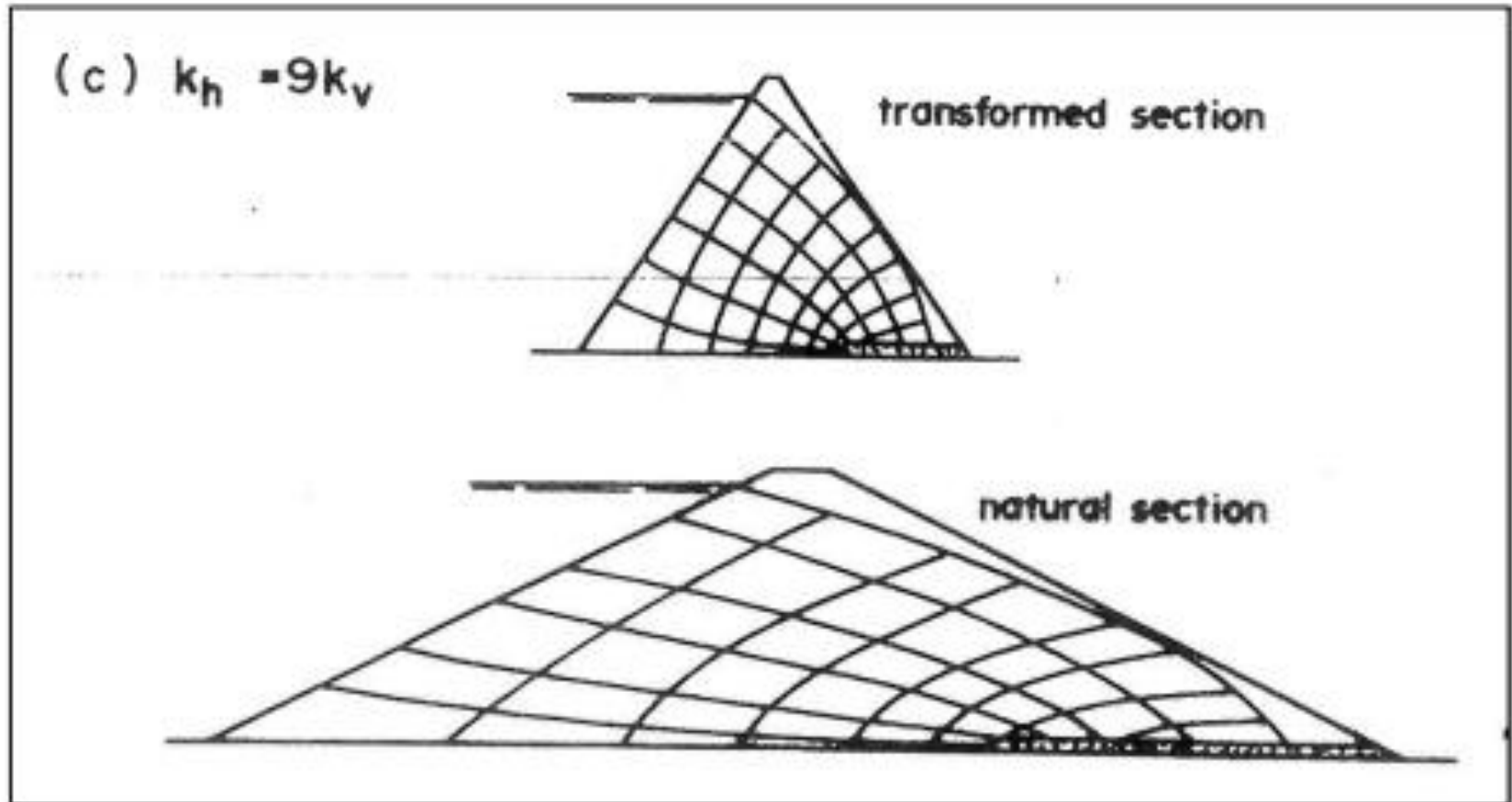


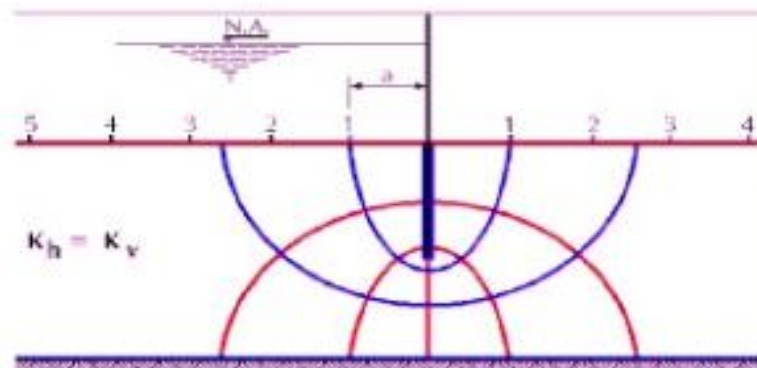
Influência da Anisotropia na Rede de Fluxo Através da Barragem

(b) $k_h = 4k_v$

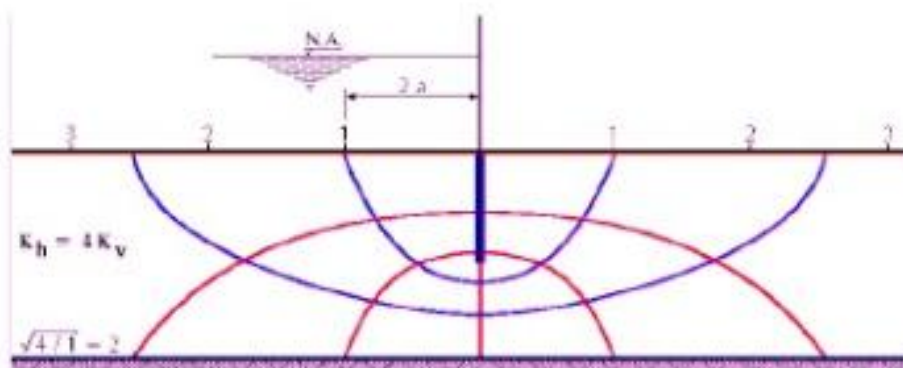


Influência da anisotropia na rede de fluxo através da barragem

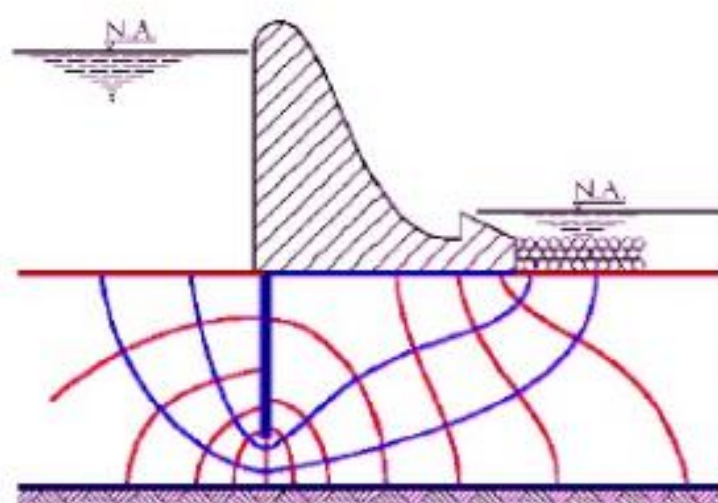




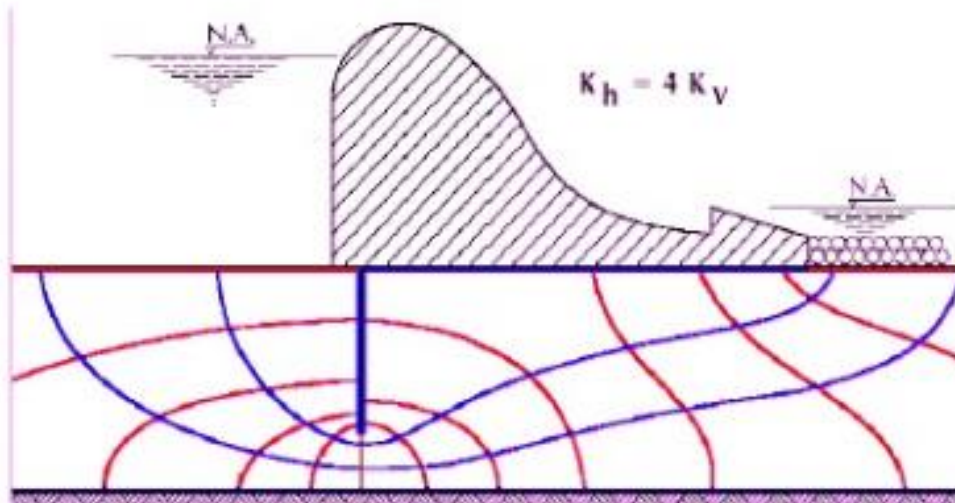
(a) seção transformada



(b) Seção real



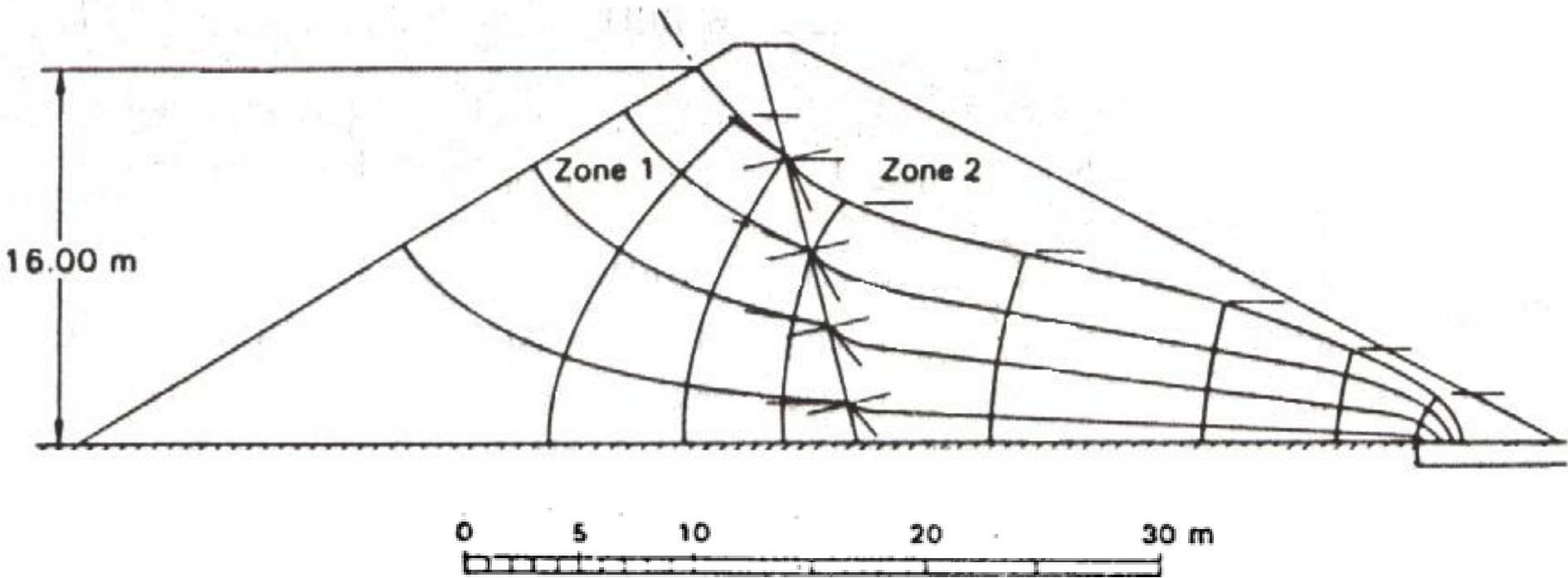
(a) seção transformada

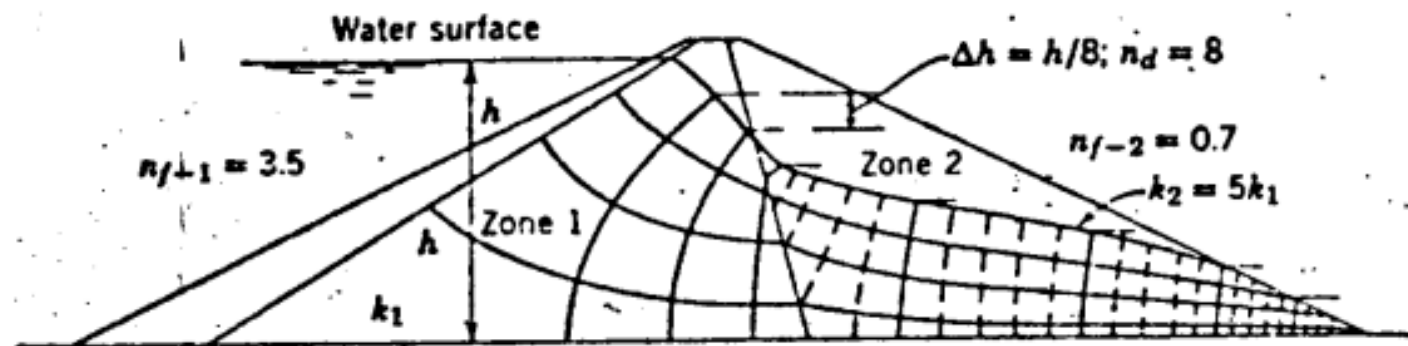


(b) Seção real

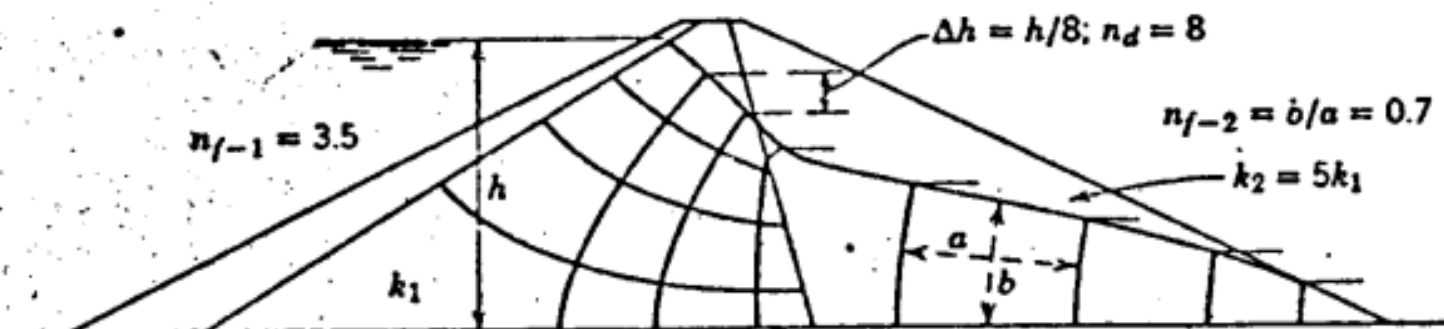
Figura 3.20 – Exemplos de rede de fluxo em meios anisotrópicos. Modificado de Stancati (1984).

Influência da heterogeneidade na rede de fluxo através da barragem





(a)



(b)



(c)

Figure 91 – Three forms of one flow net

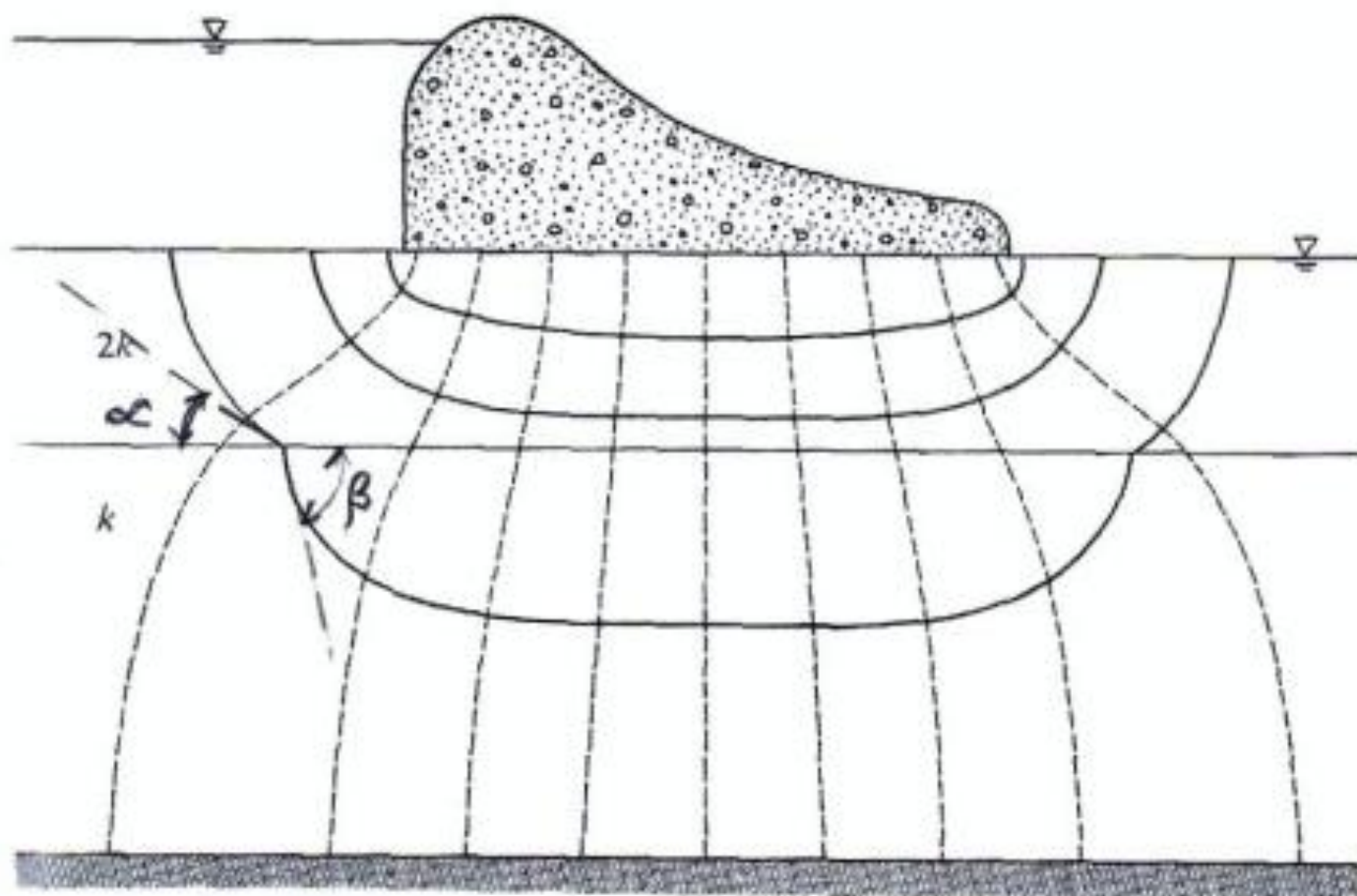


Figura 81. Fundação Heterogenea

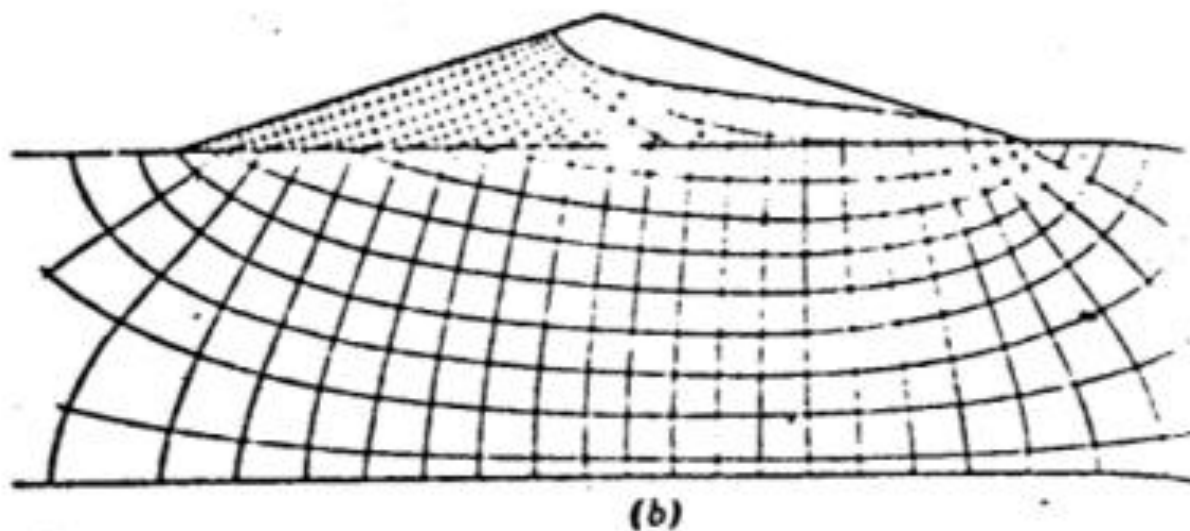
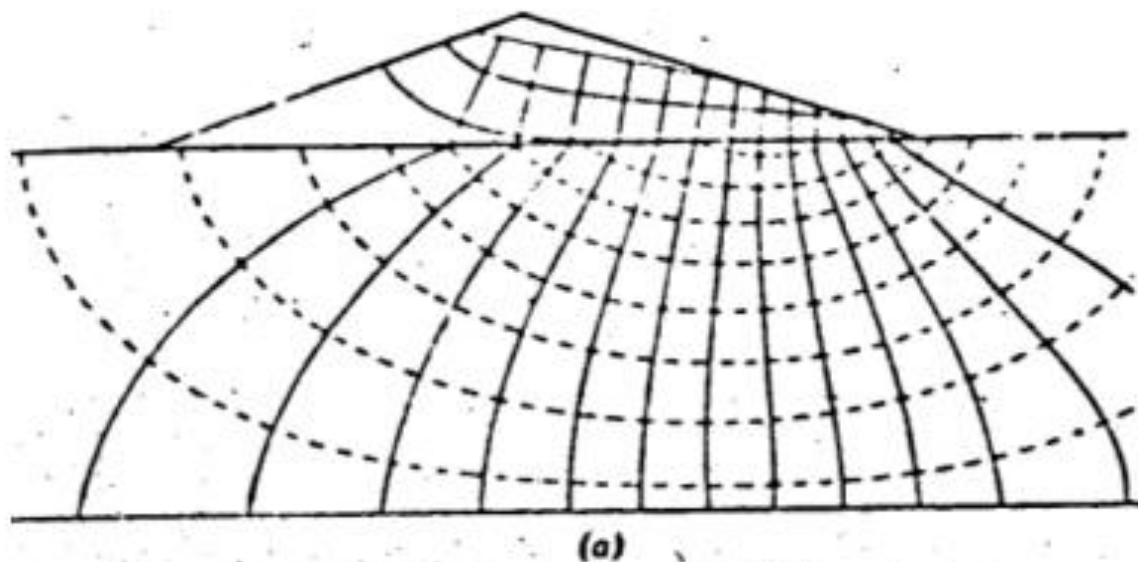
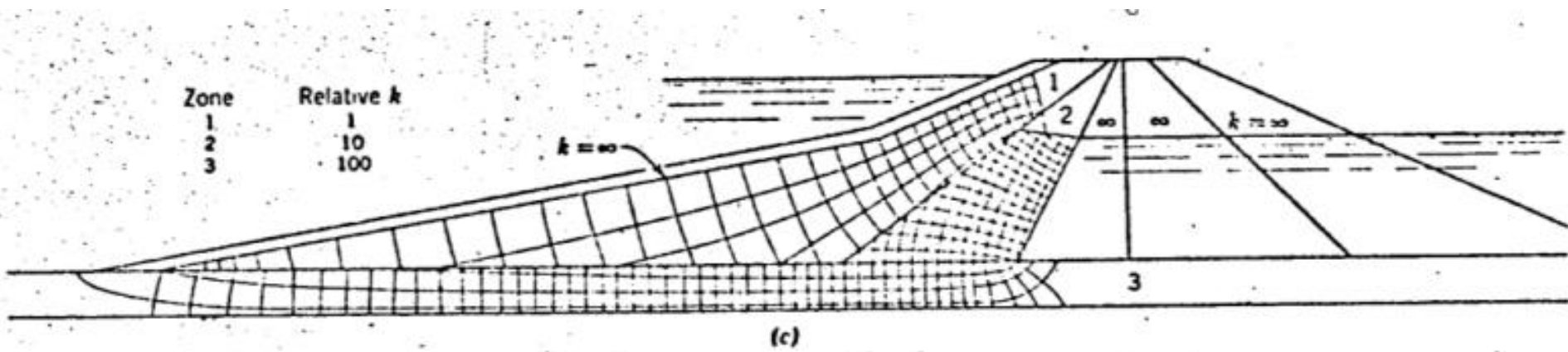
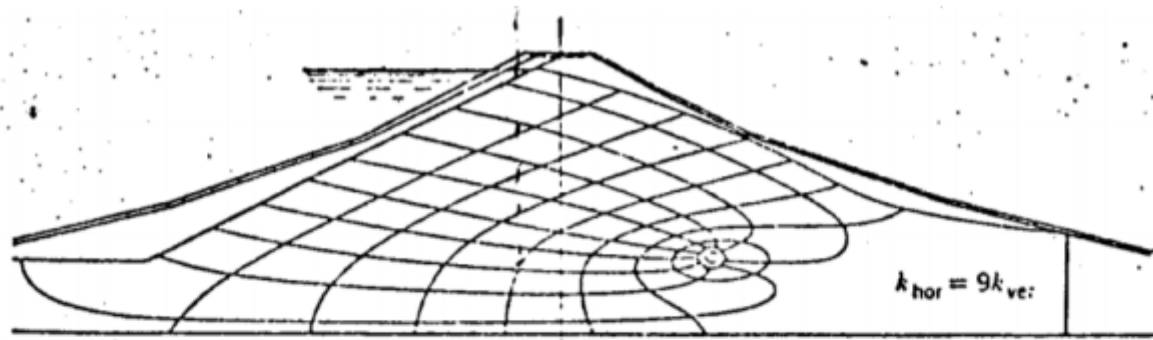


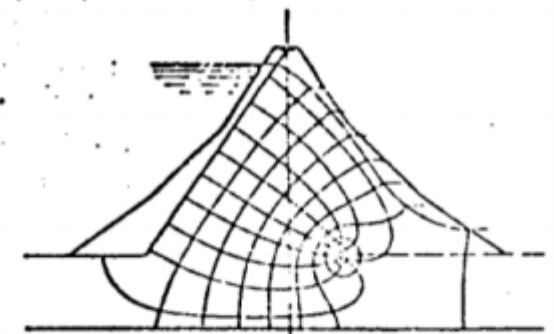
Figura 93 – Typical flow nets through dams of different permeability (after Cedergren, Ref.214). (a) Permeability of embankment 10 times the permeability of foundation. (b) Permeability of embankment 0,1 times the permeability of foundation.



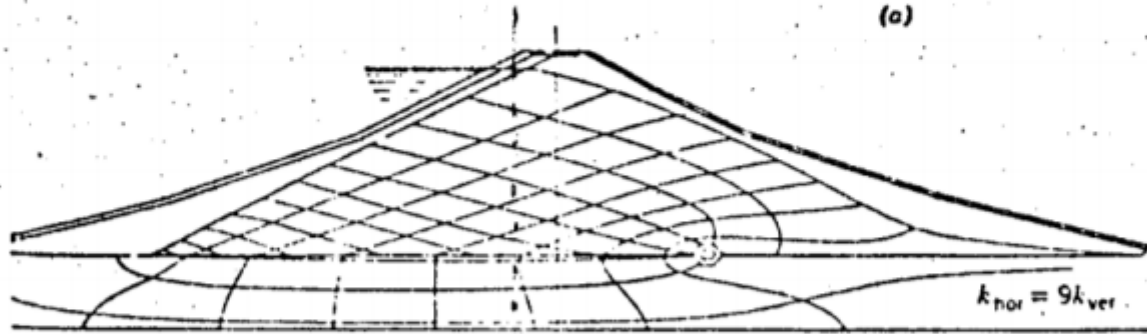


True Section

(a)

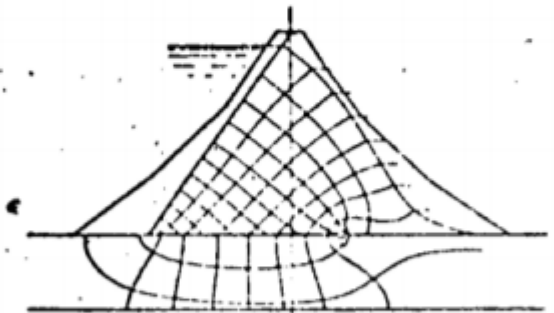


Transformed Section



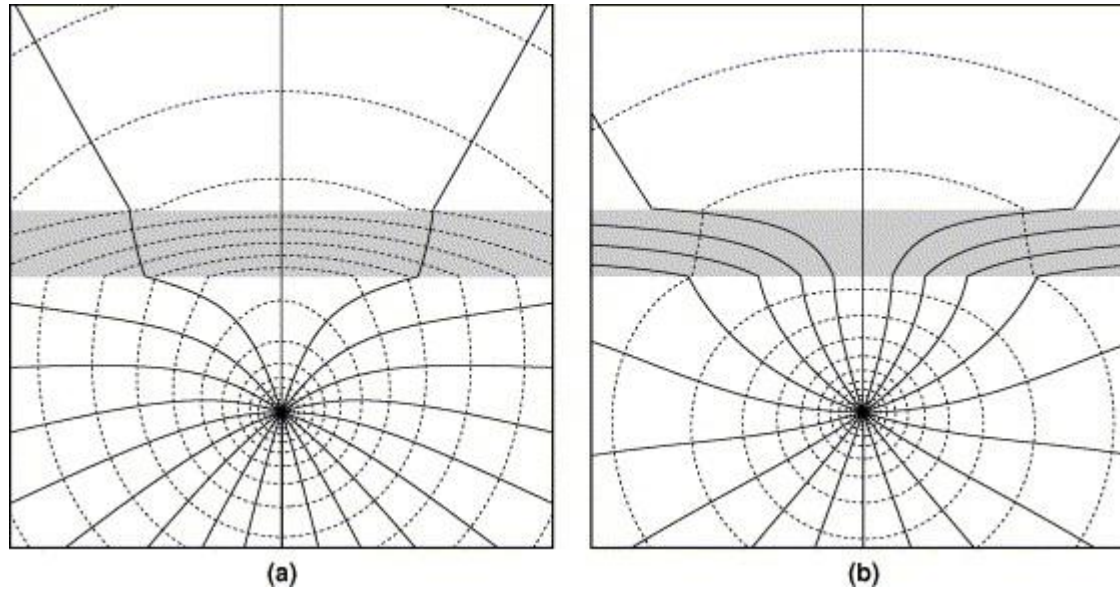
True Section

(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.

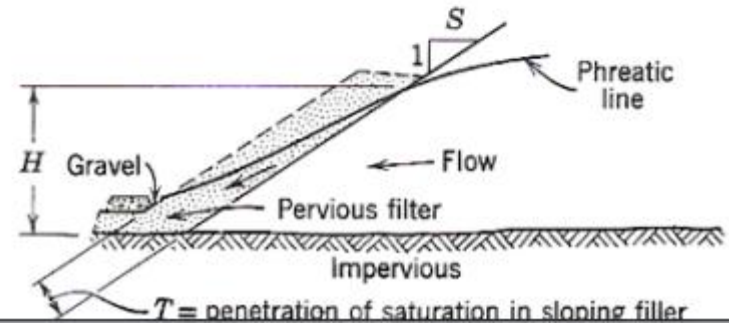
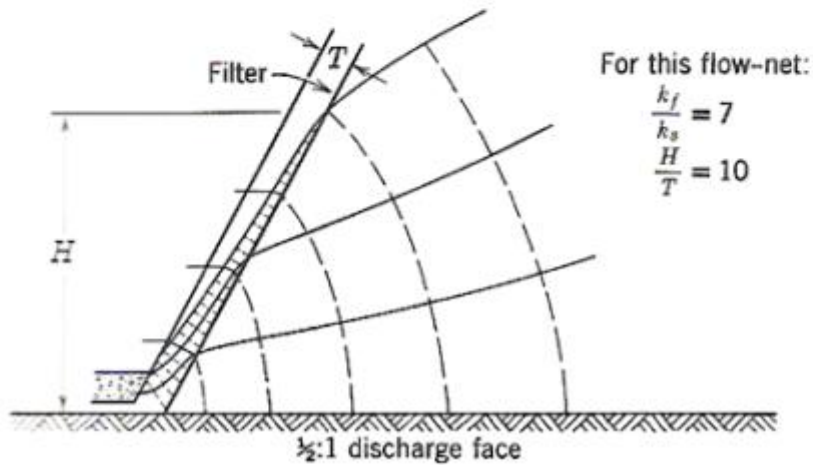
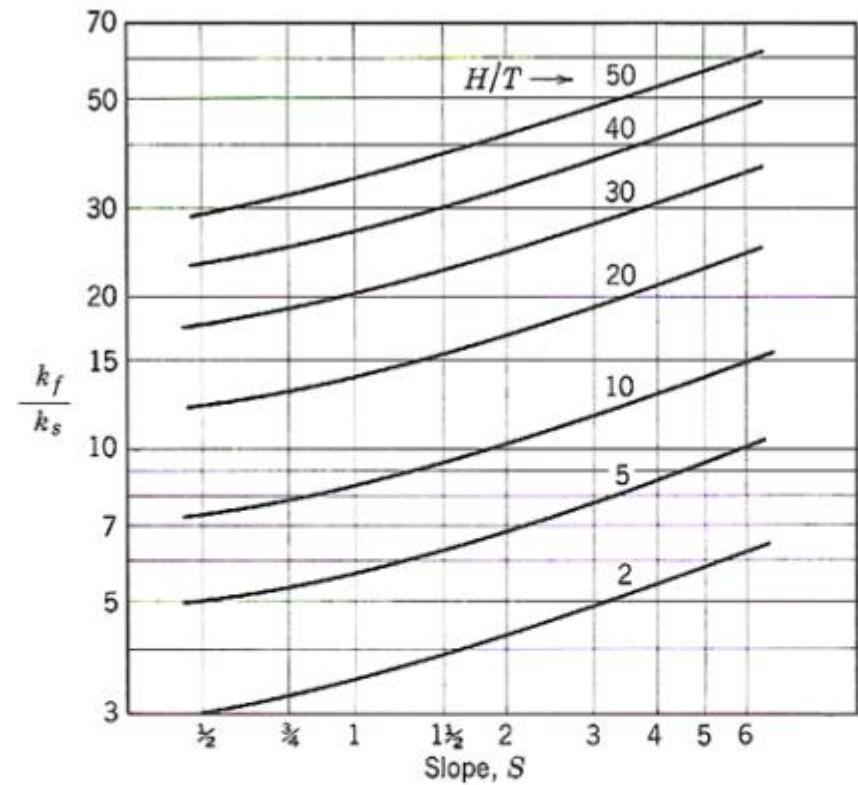
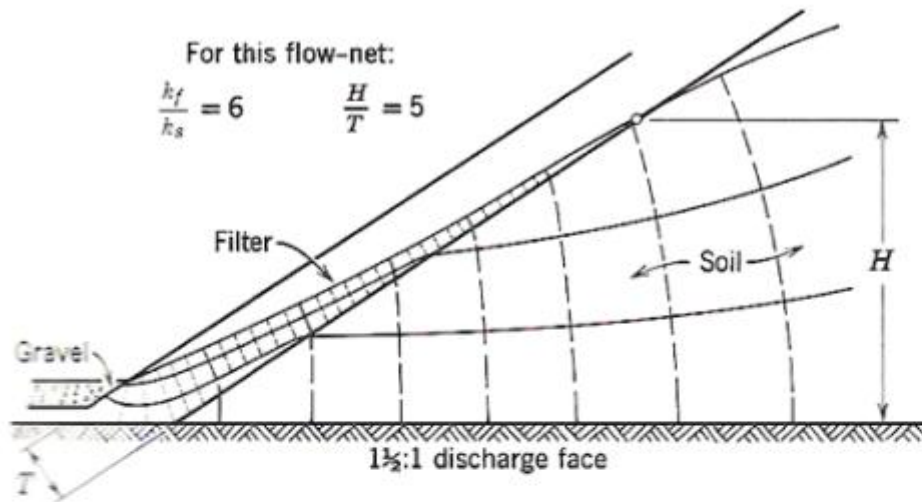


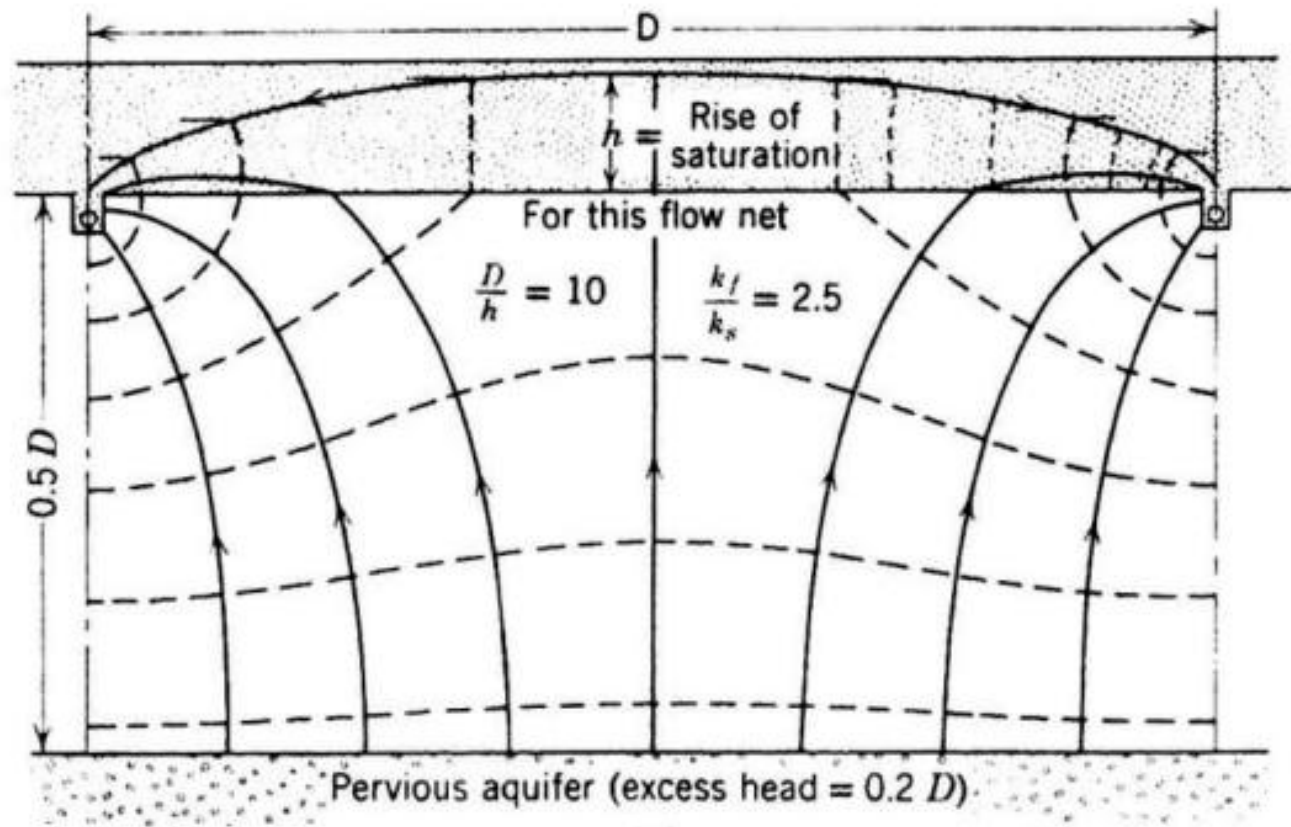
Analytical solutions for flow to a well through a fault

Erik I. Anderson  

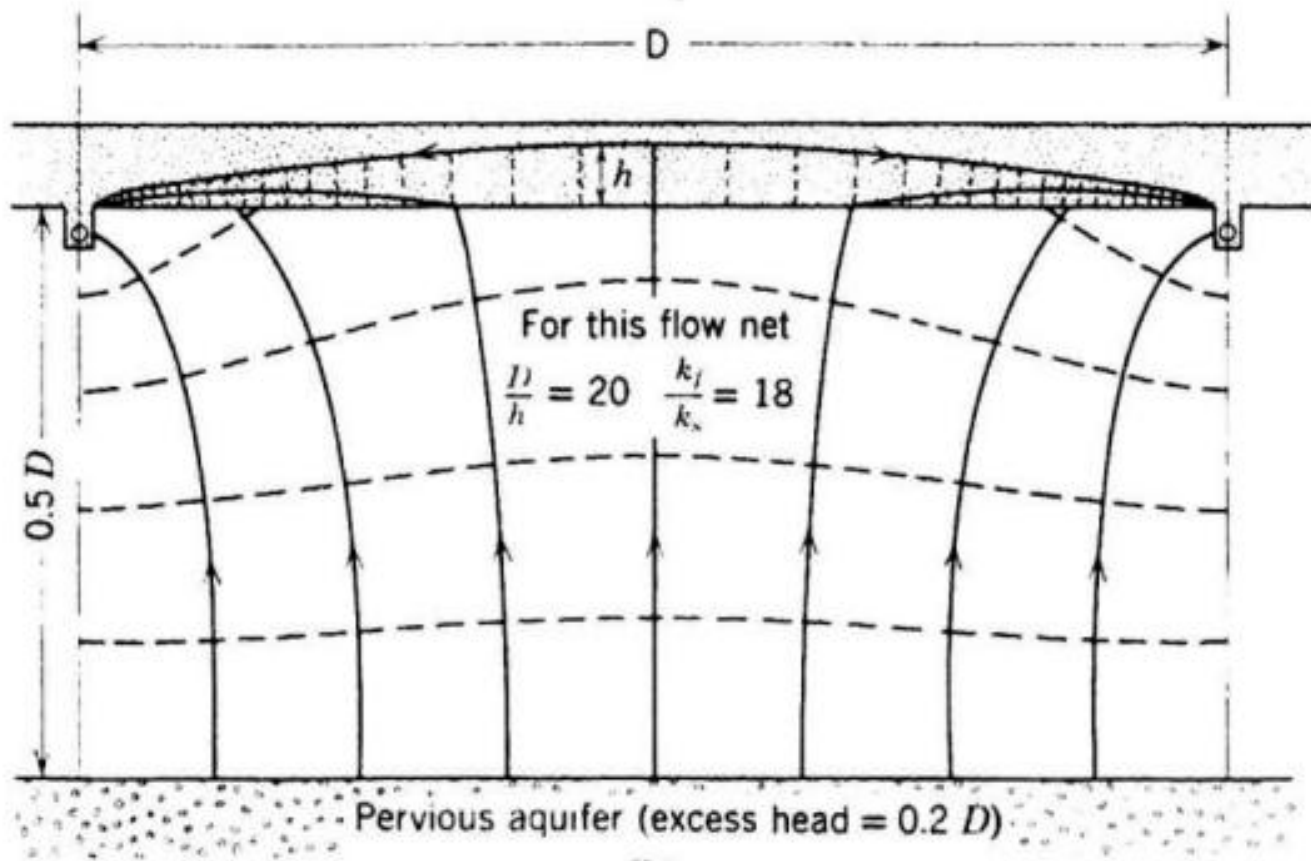
Department of Civil and Environmental Engineering, University of South Carolina, 300 Main Street, Columbia, SC 29208, United States

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





(a)



(b)

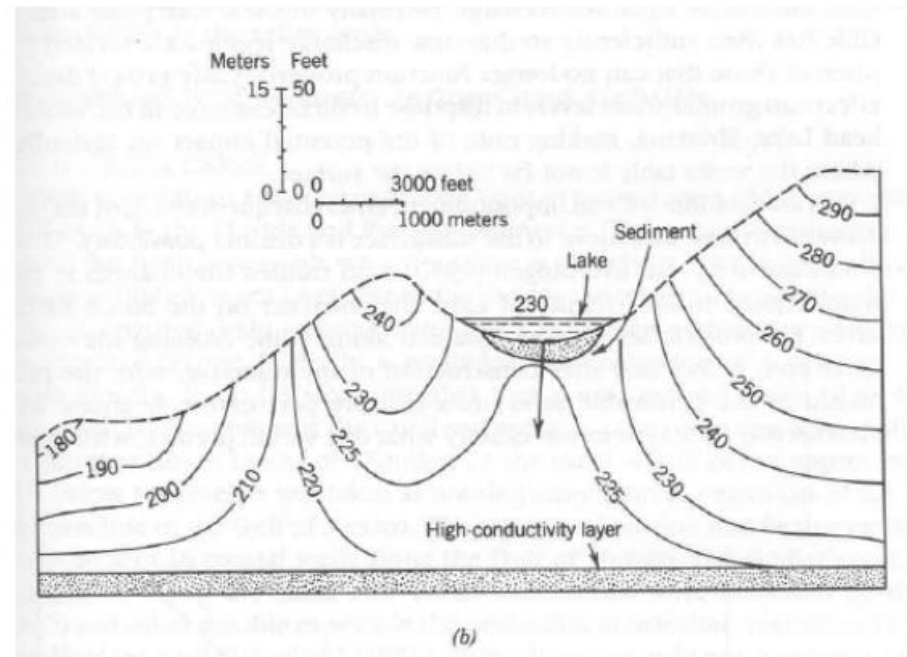
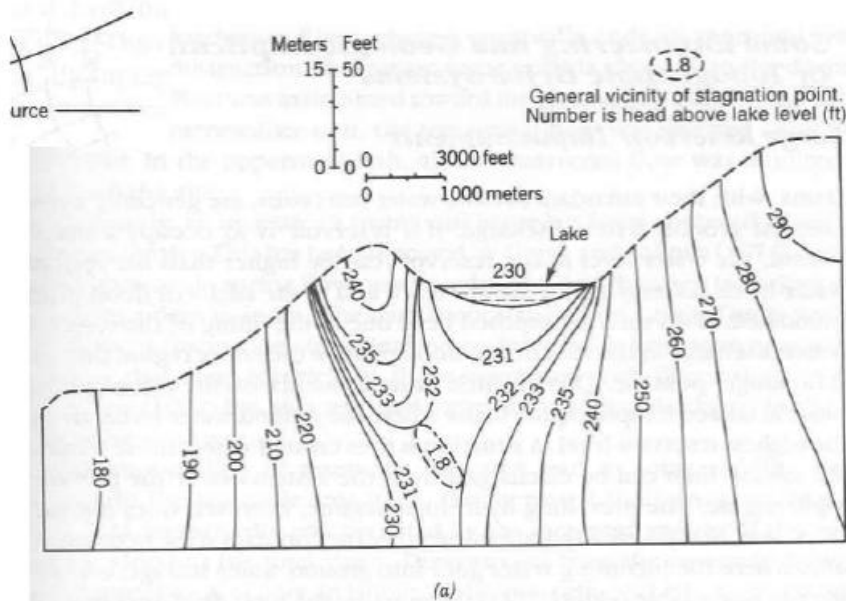


Figure 8. Flow conditions in the vicinity of a lake demonstrating the effect of a high permeability layer at depth (Winter, 1976).

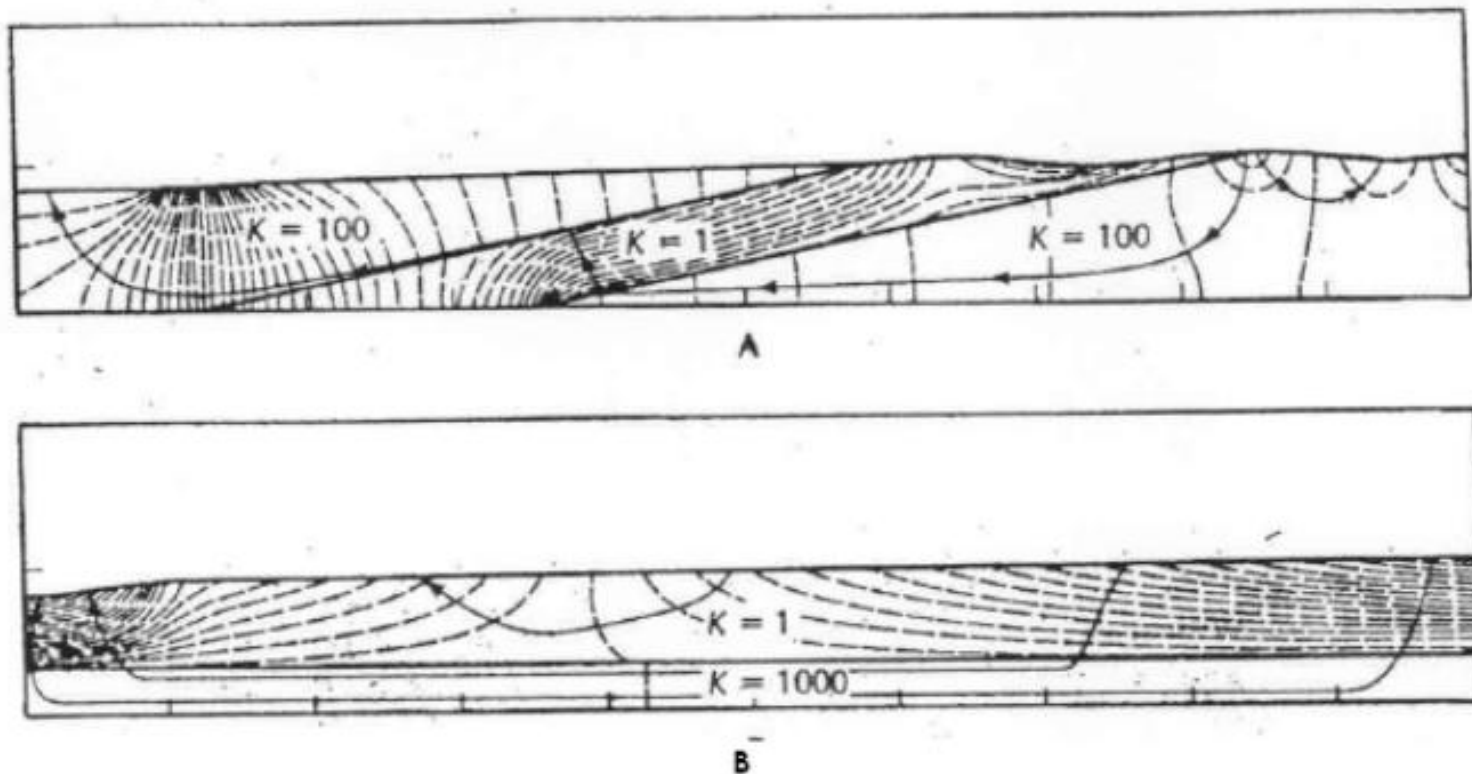


Figure 12. Regional groundwater flow in confined aquifers: (a) Aquifer confined by a sloping confined layer. (b) Aquifer confined by a flat-lying confining layer (Freeze & Witherspoon, 1967).

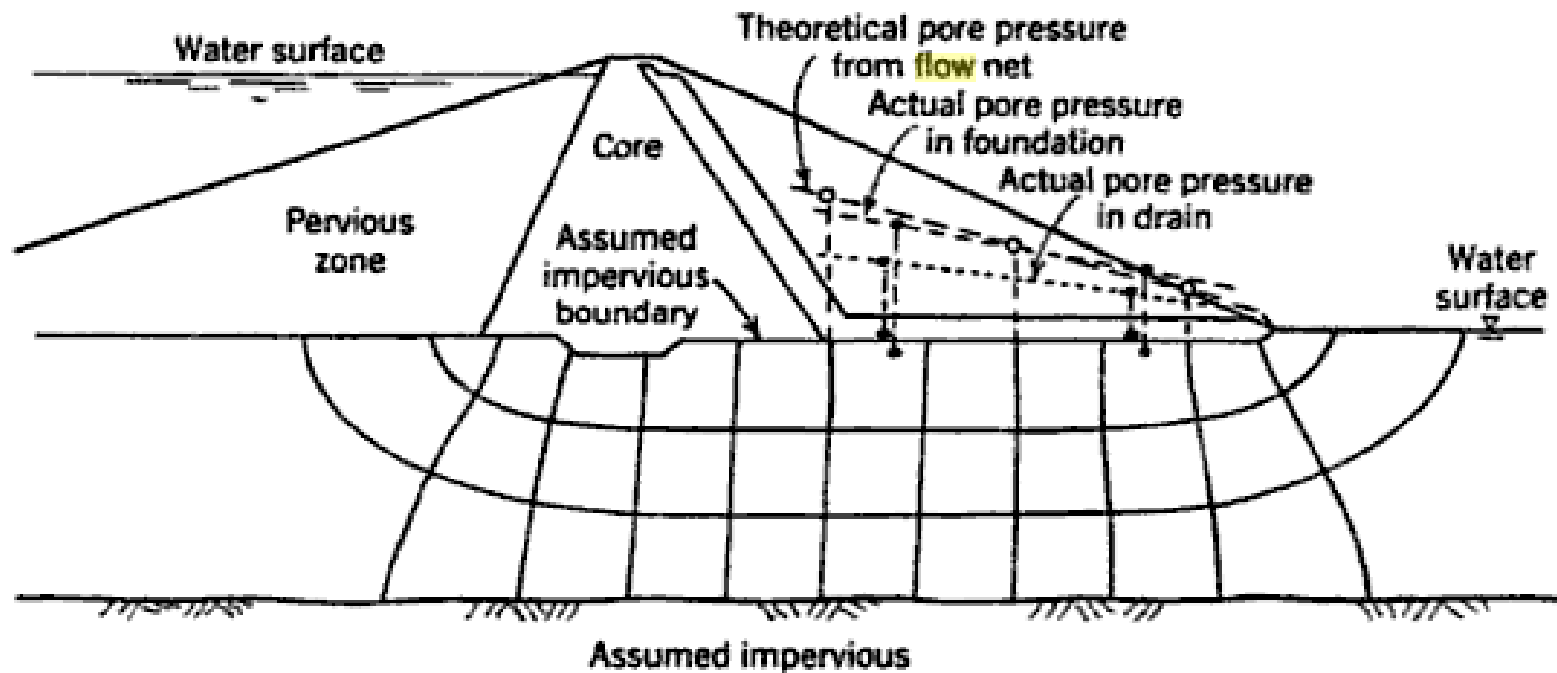
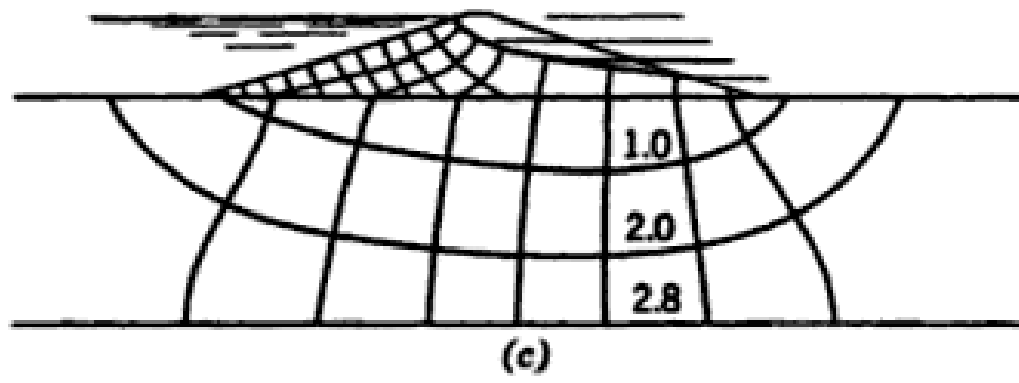
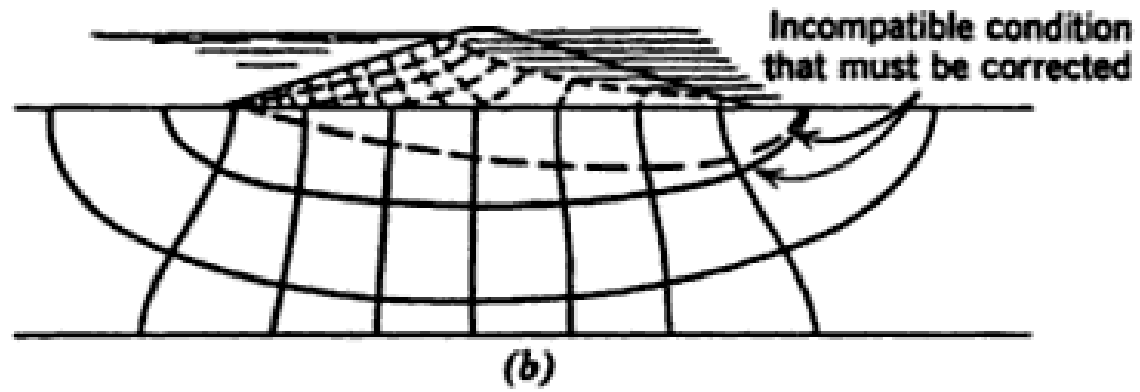
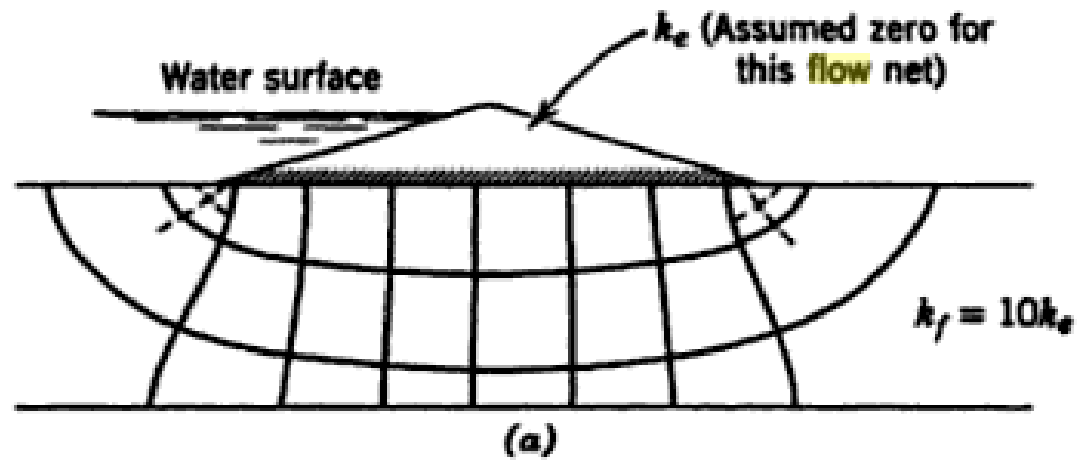


FIG. 5.10 Uplift pressures that built up under an earth dam with an expensive but ineffective drain were not measurably affected by the drain. (From *Embankment-Dam Engineering*, Casagrande Volume, Wiley, New York, 1973, p. 42).



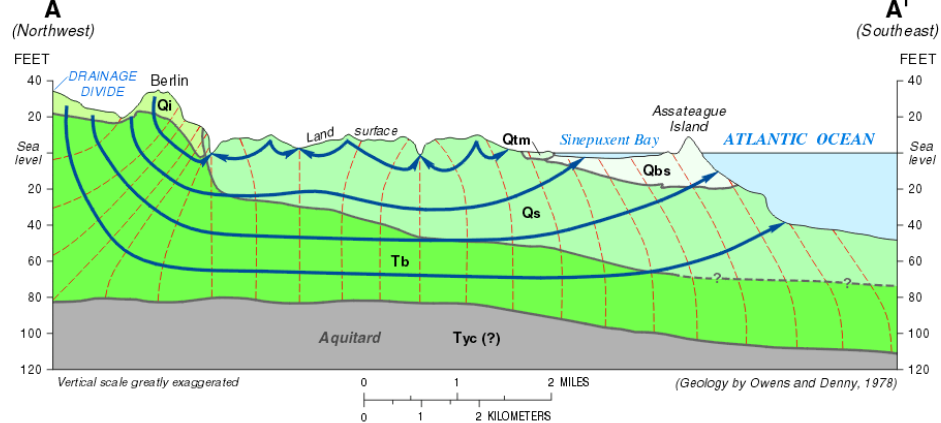


Figure 2a. Geologic units and flow net for transect A-A' on Figure 1.

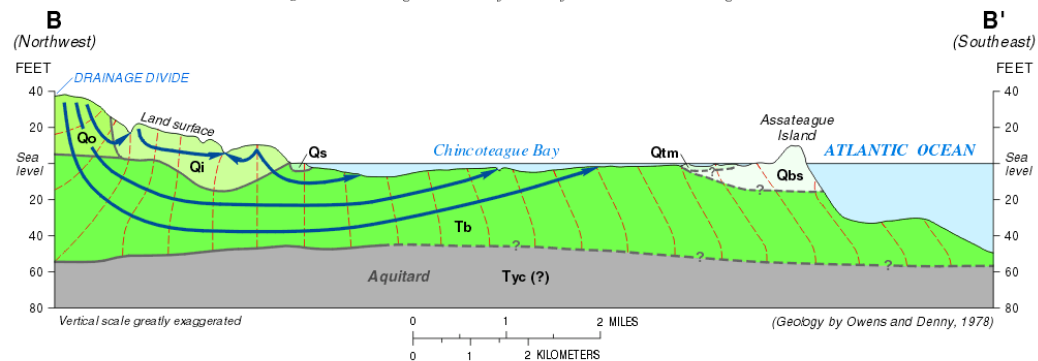


Figure 2b. Geologic units and flow net for transect B-B' on Figure 1.

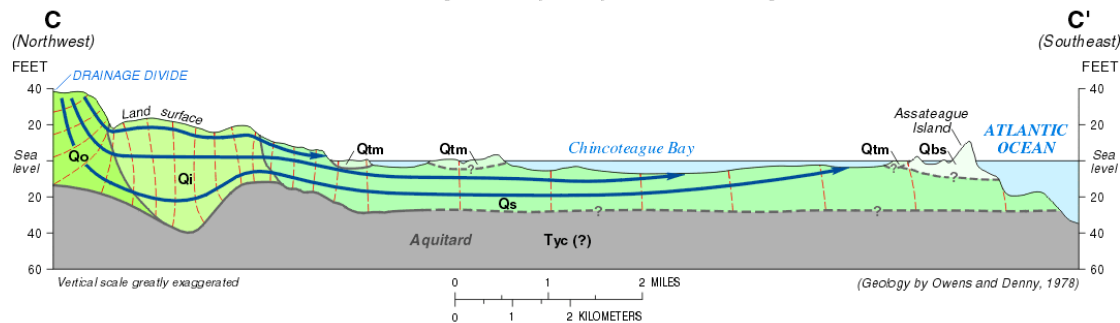


Figure 2c. Geologic units and flow net for transect C-C' on Figure 1.

EXPLANATION

GEOLOGIC UNITS

COLUMBIA AQUIFER:

- Qtm TIDAL MARSH
- Qbs BEACH SAND
- Qs SINEPUXENT FORMATION
- Qi IRONSHIRE FORMATION
- Qo OMAR FORMATION
- Tb BEAVERDAM SAND

AQUITARD:

- Tyc (?) YORKTOWN-COHANSEY FORMATION

--- EQUIPOTENTIAL LINE

→ GROUND-WATER FLOW LINE AND DIRECTION OF FLOW

- - - - - GEOLOGIC CONTACT (Dashed and queried where inferred)