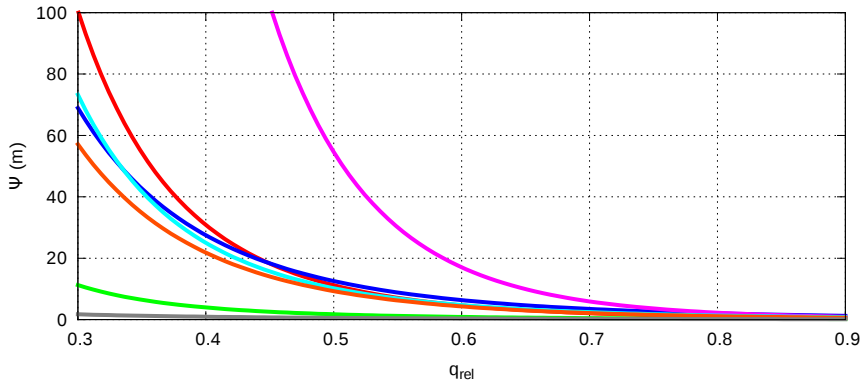


$$\Psi(q_{rel}) = \Psi_g^* (q_{max}/q)^{**b}$$

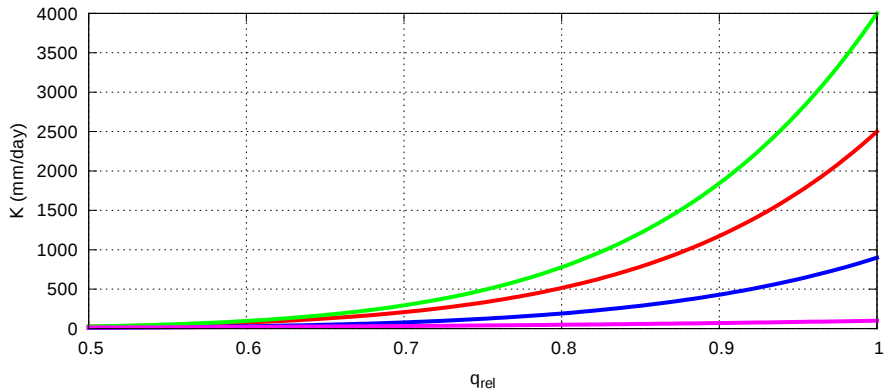


sandy clay loam
silty loam
sand

clay
loam
peat

rock

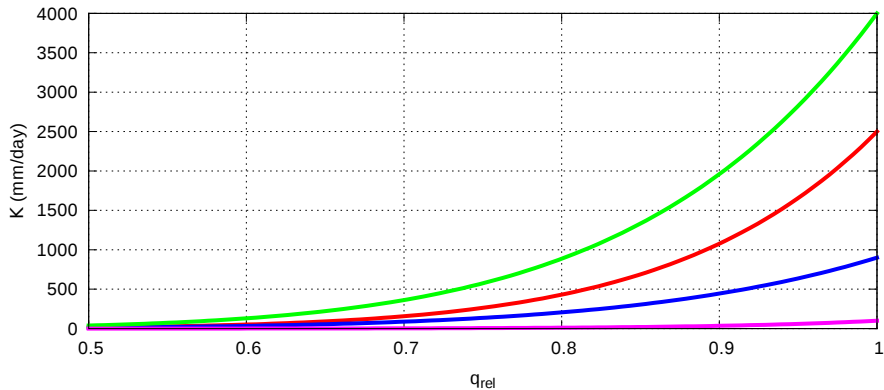
Hydraulic potential of soil $\Psi(q_{rel}) = \Psi_g * (q_{max}/q)^{**}b$



sandy clay loam
silty loam

sand
clay

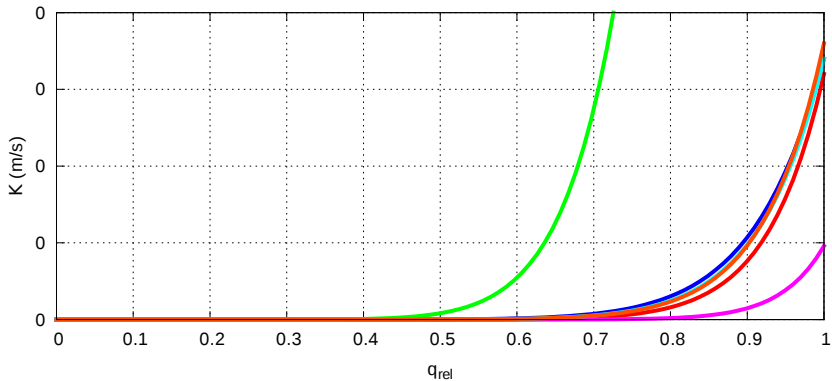
$$\Psi(q_{rel}) = \Psi_g * (q_{max}/q)^{**}b$$



sandy clay loam
silty loam

sand
clay

Hydraulic conductivity of soil $K(q, f_{ice}) = K_g * ((q - f_{ice}q) / (q_{max} - f_{ice}q))^{2b+3}$, $f_{ice}=0$

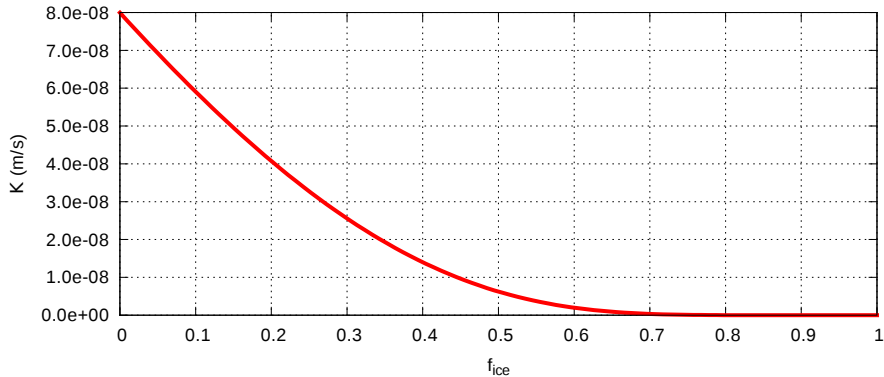


sandy clay loam
silty loam
sand

clay
loam
peat

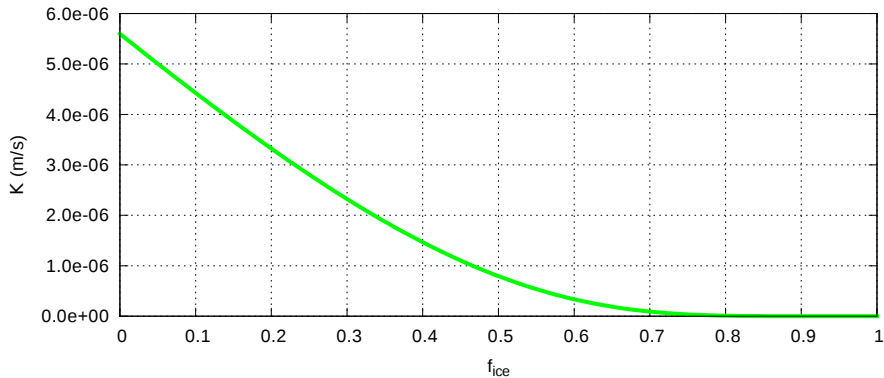
rock

Hydraulic conductivity of soil $K(q, f_{ice}) = K_g * ((q - f_{ice}q) / (q_{max} - f_{ice}q))^{(2b+3)}$, Sandy clay loam



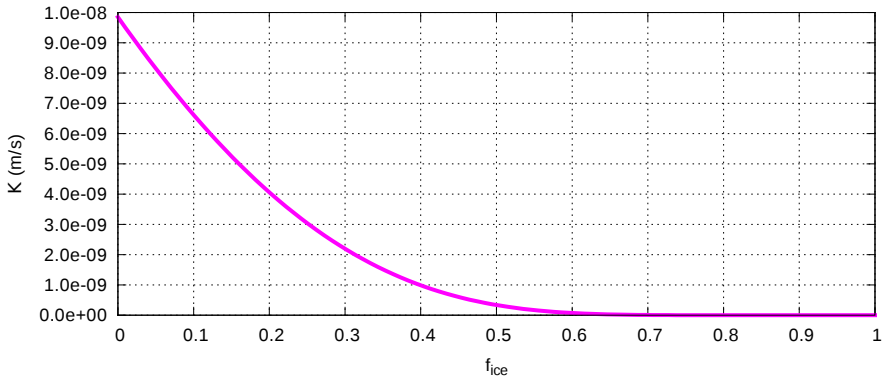
$q_{rel}=0.8$ —

Hydraulic conductivity of soil $K(q, f_{ice}) = K_g * ((q - f_{ice}q) / (q_{max} - f_{ice}q))^{2b+3}$, Sand



$q_{rel}=0.8$ —

Hydraulic conductivity of soil $K(q, f_{ice}) = K_g * ((q - f_{ice}q) / (q_{max} - f_{ice}q))^{2b+3}$, Clay



$q_{rel}=0.8$ —