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Upscaling soil saturated hydraulic conductivity from pore throat characteristics

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**Highlights**

- Concepts from critical path analysis are applied to upscale soil saturated hydraulic conductivity
- Electrical and saturated hydraulic conductivities are estimated from pore throat-size distribution
- $K_{\text{sat}}$  estimations were within a factor of 3 of the measurements for 11 soil texture classes

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