

Jason Furtney

Itasca Consulting Group, Minneapolis, MN

Rock Mechanics: Understanding in situ rock as an engineering material

Rock is the most complex engineering material

- We cannot see inside the earth (data-limited problems).
- Rock behavior is non-linear due to the presence of faults.
- Rock damage and fracture are not fully understood.

Applications: mining, petroleum, civil engineering, nuclear waste isolation and renewable power generation.

My specialty is numerical modeling of mechanical deformation and fluid flow in rock.

