

To arrive at the **engineering behaviour of the ground**, there are common relations or equations between rock, rock mass and engineering/structure:

1. **Material properties + mass fabric = Mass property**
2. **Mass property + environment = Engineering geological condition**
3. **Engineering geological condition + changes produced by engineering work = Engineering Behaviour of the Ground.**

Let's see all the variables in the equations above and their significance:

- **Material:** rock, soil, and fluids and/or gas
- **Material property:** density, shear strength, deformability, etc.



Engineering Geology Lecture Notes

Zhe Xu



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