

岩石力學

Fall 2016

Instructor: 壽克堅

Class time: Wednesday 1510~1700

Office hours: Wednesday 1310~1500

Textbook: ***Engineering Rock Mechanics***, John A. Hudson and John P. Harrison, New York, Pergamon, 2000.

References:

1. ***Introduction to Rock Mechanics***, 2nd Ed., Richard E. Goodman, New York, John Wiley & Sons, 1989.
2. ***Rock Engineering Application***, John A. Franklin & Maurice B. Dusseault, New York, McGraw-Hill, 1991.
3. ***Rock Mechanics in Mining and Tunneling***, Z. T. Bieniawski, Boston, A. A. Balkema, 1984.

Grading:

homework & quiz	30%
midterm	35%
final	35%

Topics:

1. Classification and Index Properties of Rocks
1465648736. Rock Strength and Failure Criteria
1465648737. Initial Stresses in Rocks and Their Measurement
1465648738. Planes of Weakness in Rocks
1465648739. Application of Rock Mechanics on Underground Openings
1465648740. Application of Rock Mechanics on Rock Slope Engineering
1465648741. Application of Rock Mechanics on Foundation Engineering
1465648742. demonstrations of major rock mechanics experiments