

# MODULE 4- STUDY OF ROCKS

The branch of geology dealing with various aspects of rocks such as their formation, classification and occurrence is called petrology

## TYPES OF ROCKS

1. Igneous
2. Sedimentary
3. Metamorphic

### **1. IGNEOUS ROCKS**

- Rocks that formed from hot molten material through the process of cooling and crystallization of magma or lava is called igneous rocks.

#### Magma

- The hot molten material occurring naturally below the surface of the earth is called Magma. It is called lava when erupted through volcanoes.
- Igneous rocks are formed from both magma and lava

#### Types of igneous rocks

1. Volcanic rocks
2. Plutonic rocks
3. Hypabyssal rocks

#### **1. Volcanic rocks**

- These are formed on the surface of the earth by cooling and crystallization of lava erupted from volcanoes
- The grain size of the crystals formed in these rocks is very fine because lava cools down at very fast rate
- Cooling of lava may takes place on the surface or even under waters of seas and oceans

# Engineering Geology Lecture Notes

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## **Engineering Geology Lecture Notes:**

Principles of Engineering Geology Niek Rengers, 1981 **Lecture Notes** Niek Rengers, International Institute for Aerial Survey and earth Sciences, 1973 *Principles of Engineering Geology (lecture Notes of Subject H.5)* Niek Rengers, Institut international de levés aériens et sciences de la terre, 1975 **Engineering Geology in Construction Excavation** Association of Engineering Geologists, 1980\* Engineering Geology 260 Karl Terzaghi, 1996 **Engineering Geology for Geologists** A. F. Geiger, A. W. Hatheway, American Geological Institute, 1978 **Engineering geology** D. G. Price, 1989 *Engineering geology* C. A. Davenport, D. G. Price, 2003 *Engineering Geology* D.V. Reddy, 2010 Engineering Geology is a multidisciplinary subject which interacts with other disciplines such as mineralogy petrology structural geology hydrogeology seismic engineering rock engineering soil mechanics geophysics remote sensing RS GIS GPS environmental geology etc Engineers require a deeper understanding interpretation and analyses of earth sciences before suggesting engineering designs and remedial measures to combat natural disasters such as earthquakes volcanoes landslides debris flows tsunamis and floods This book covers all aspects of Engineering Geology and is intended to serve as a reference for practicing civil engineers and mining engineers Engineering Geology has also been designed as a textbook for students pursuing undergraduate and postgraduate courses in advanced applied geology and earth sciences A plethora of examples and case studies relevant to the Indian context have been included for better understanding of the geological challenges faced by engineers *CE446 - Engineering Geology* D. H. Gray, 19?? **Mp4720 Marine Engineering Geology** P.M. Maurenbrecher, Delft University of Technology, Faculty of Mining and Petroleum Engineering. Section Engineering Geology, 1994 **Engineering Geology for Geologist** A.F. Geiger, A.W. Hatheway, American Geological Institute, Association of Engineering Geologists, 1978 Engineering Geology Christopher C. Mathewson, 1981 Organized into three parts 1 earth materials describing basic geologic concepts and engineering properties of rocks soils and fluids 2 geologic processes and engineering geology showing that many site specific problems are related to the geologic process that formed the site and 3 engineering geology in practice dealing with the applications and practice of engineering geology including ethics and registration Foreword **Columbia University Bulletin** Columbia University, 1917 *Wear of Rock Cutting Tools* P.N.W. Verhoef, 2017-11-22 This text deals with the dredging of rock by large cutter suction dredgers The rock properties influencing the mechanical cutting of rock and the wear of cutting teeth are examined and to verify the model of mechanical rock excavation developed case studies of dredging projects were performed Bulletin - Association of Engineering Geologists Association of Engineering Geologists, 1981 *Engineering Geology for Infrastructure Planning in Europe* Robert Hack, Rafiq Azzam, Robert Charlier, 2004-04-22 Geologists and civil engineers related to infrastructure planning design and building describe professional practices and engineering geological methods in different European infrastructure projects **III International Congress, International Association of Engineering Geology, Madrid,**

**Spain, 4-8 September, 1978** International Association of Engineering Geology, 1978  
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