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ENGINEERING GEOLOGY

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INTRODUCTION: IMPORTANCE OF GEOLOGY FROM CIVIL ENGINEERING POINT OF VIEW. BRIEF STUDY OF CASE HISTORIES OF FAILURE OF SOME CIVIL ENGINEERING CONSTRUCTIONS DUE TO GEOLOGICAL DRAW BACKS. IMPORTANCE OF PHYSICAL GEOLOGY, PETROLOGY AND STRUCTURAL GEOLOGY. WEATHERING OF ROCKS: ITS EFFECT OVER THE PROPERTIES OF ROCKS IMPORTANCE OF WEATHERING WITH REFERENCE TO DAMS, RESERVOIRS AND TUNNELS WEATHERING OF COMMON ROCK LIKE "GRANITE"

GEOLOGY OF DAMS AND RESERVOIRS : TYPES OF DAMS and bearing of geology of site in their selection GEOLOGICAL CONSIDERATIONS IN THE SELECTION OF A DAM SITE. ANALYSIS OF DAM FAILURES OF THE PAST. FACTORS CONTRIBUTING TO THE SUCCESS OF A RESERVOIR. GEOLOGICAL FACTORS INFLUENCING Water tightness and life of reservoirs, geo HAZARDS, GROUND SUBSIDENCE. GEOPHYSICAL STUDIES: IMPORTANCE OF GEOPHYSICAL STUDIES PRINCIPLES OF GEOPHYSICAL STUDY BY GRAVITY METHODS. MAGNETIC METHODS, ELECTRICAL METHODS SEISMIC METHODS, RADIO METRIC METHODS AND GEOTHERMAL METHOD. SPECIAL IMPORTANCE OF ELECTRICAL RESISTIVITY METHODS, AND SEISMIC REFRACTION METHODS. IMPROVEMENT OF COMPETENCE OF SITES BY GROUTING ETC. FUNDAMENTAL ASPECTS OF ROCK MECHANICS AND ENVIRONMENTAL GEOLOGY

MINERALOGY : DEFINITION OF MINERAL, IMPORTANCE OF STUDY OF MINERALS, DIFFERENT METHODS OF STUDY OF MINERALS. ADVANTAGES OF STUDY OF MINERALS BY PHYSICAL
PROPERTIES ROLE OF STUDY OF PHYSICAL PROPERTIES OF MINERALS IN THE IDENTIFICATION OF MINERALS. STUDY OF PHYSICAL PROPERTIES OF FOLLOWING COMMON ROCK FORMING
MINERALS: FELOSPER, DUARTZ, FINT, JASPER, DUVINE, AUGITE,
HORNBLENDE, MUSCOVITE, BIOTITE, ASBESTOS, CHLORITE, KYANITE,
GARNET, TALC, CALCITE, STUDY OF OTHER COMMON ECONOMICS BARNET, TALS, CALCITE, STUDY OF OTHER COMMON ECONOMICS MINERALS SUCH AS PYRITE, HEMATITE, MAGNETITE, CHRORITE, GALENA, PYROLUSITE, BRAPHITE, MAGNESITE, AND BAUXITE, PETROLOGY, DEFINITION OF ROCKS, GEOLOGICAL CLASSIFICATION OF ROCKS INTO IGNEOUS, SECIMENTARY AND METAMORPHIC ROCKS, DYKES AND SILLS, COMMON STRUCTURES AND TEXTURES OF IGNEOUS, SEDIMENTARY AND METAMORPHIC ROCKS, THEIR DISTINGUISHING FEATURES, AND TEXTURES OF IGNEOUS, SEDIMENTARY AND METAMORPHIC ROCKS, THEIR DISTINGUISHING FEATURES. MEGASCOPIC AND MICROSCOPIC STUDY OF GRANITE, Dolerite, Basalt, Pegmatite, Laterite, Conglomerate, Sand STONE, SHALE, LIMESTONE, GNEISS, SCHIST, QUARTZITE, MARBLE AND SLATE. ROCK EXCAVATION, STONE AGGREGATES.

TUNNELS: PURPOSES OF TUNNELING, EFFECTS OF TUNNELING ON THE GROUND GEOLOGICAL CONSIDERATIONS

(LITHOLOGICAL, STRUCTURAL AND GROUND

TUNNELING OVER BREAK AND LINING IN TUNNELS, TUNNELS IN ROCK, SUBSIDENCE

OLD MINES, MININING SUBSTANCES

STRUCTURAL GEOLOGY : INDIAN STRATIGRAPHY, PALEONTOLOGY AND GEOLOGICAL TIME SCALE, DUT CROP, STRIKE AND DIP STUDY OF COMMON GEOLOGICAL STRUCTURES ASSOCIATING WITH THE ROCKS COMMON BECUEDING STAULTINE ASSOCIATION WITH THE ROBAS SUCH AS FOLDS, FAULTS UNCONFORMITES, AND JUINTS -THEIR IMPORTANT TYPES, GROUND WATER, WATER TABLE, COMMON TYPES OF GROUND WATER, SPRINGS, CONE OF DEPRESSION, GEOLOGICAL CONTROLS OF GROUND WATER MOVEMENT, GROUND WATER EXPLORATION. EARTH DUAKES, THEIR CAUSES AND EFFECTS, WATER CAPLUSATION, EARTH BURKES, THEIR BUSIES AND EFFECTS,
SHIELD AREAS AND SEISMIC BELTS, SEISMIC WAYES, RICHTER SCALE,
PRECAUTIONS TO BE TAKEN FOR BUILDING CONSTRUCTION IN SEISMIC
AREAS, LAND SLIDES, LAND SLIDES HAZARDS, WATER IN LAND SLIDES
THEIR CAUSES AND EFFECT: MEASURES TO BE
TAKEN TO PREVENT THEIR DICLURERINGE, IMPORTANCE OF STUDY OF GROUND WATER, EARTHQUAKE AND LANDSLIDES

1) ENGINEERING GEOLOGY BY N.CHENNKESAVULU, MAC-MILLAN, PUBLISHERS

2ND EDITION INDIA LTD. 2010.

2) PRINCIPALS OF ENGINEERING GEOLOGY BY

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2. GEOLOGY BASICS OF ENGINEERING BY AURELE

PARRIAUX, CRC PRESS

3. KRYNINE & JUDD, PRINCIPLES OF ENGINEERING

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4. F.G. BELL, FUNDAMENTAL OF ENGINEERING GEOLOGY BUTTERWORTHS,

PUBLICATIONS, NEW DELHI, 1992.



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