

is known as *quartz*. A second, which is variable in color, but frequently pink, appears on superficial examination to be somewhat similar in character, but breaks or cleaves with smooth surfaces. It is named *feldspar*. A third substance which is present in many varieties of granite may be either black or white in color. It splits readily into thin flakes or scales, and



FIG. 3.

F, Cleavage piece of Feldspar; Q, Quartz showing irregular fracture; M, dark Mica.

is known as *mica*. These three substances possess, theoretically, a definite chemical composition, and are called minerals (Fig. 3).

The smooth or cleavage surfaces of the feldspar grains can best be detected by turning the specimen so that the light strikes it from different directions. Coarse-grained granite, containing preferably pink feldspar, should be studied first.