spar, which on close examination appears granular foliated; further, also, pitchstone, pearlstone, and obfidian. The imbedded parts are most commonly felfpar and quartz, which are usually crystallized, more or less perfectly, and hence they appear fometimes granular. The quartz is usually crystallized, and in double fix-fided pyramids. The felspar crystals are broad fix-fided prisms, but usually very indistinct. The felspar is more or less fresh, sometimes even glassy, sometimes completely difintegrated and earthy, and fometimes appears only like white specks. It is difficult to determine, whether or not this is original, or the consequence of weathering. The frequency and magnitude of these mixed parts, modify the appearance of the different kinds of porphyry very much. Sometimes one, sometimes the other, but more frequently both occur together, and along with these several others which are less frequent. as crystals of hornblende and mica. The basis and the mixed parts of the porphyry also differ in colour and several other properties. It sometimes contains chalcedony and agate, fometimes in maffive pieces, sometimes in small layers or plates. Further, there sometimes occur balls of a greater or less fize; in clay-porphyry the centre of these balls is chalcedony, but their exterior is hornstone porphyry. In Pitchstone-Porphyry, these balls are composed of a particular kind of conchoidal hornstone, but the centre is quartz. These balls are nearly