THIRD APPENDIX.

Of the Chemical Analyſis of Earths and Stones.

THIS ſubject, treated in its full extent, would require a particular account of the manner of analyzing not only each particular genus, but alſo moſt of the various ſpecies contained under thoſe genera; it is eaſy to ſee this would require an immenſe detail; my intention, therefore, is to conſider theſe foſſils abſtractedly from all external characters, and ſolely in their relation to chemical agents, particularly to ſpirit of nitre, and the vitriolic acid.

In this point of view they may be divided into ſeven claſſes:

1ſt, Thoſe that are wholly or partially ſoluble, and with effervеſcence, in nitrous acid, whoſe ſpecific gravity is 1,4, or higher.

2d, Thoſe that are inſoluble in nitrous acid 1,4, but wholly or partially ſoluble, and with effervеſcence, in nitrous acid 1,25, in the temperature of 60°.

3d, Thoſe that are inſoluble in ſpirit of nitre or nitrous acid 1,25, but totally or partially ſoluble,