4 Mr. T. S. Hunt's Examinations of some Felspathic Rocks.

| | I. | II. | III. |
|------------------|----------|-------|-------|
| Silica | . 59.55 | 59.85 | 59.80 |
| Alumina | 25.62 | 25.55 | 25.39 |
| Peroxide of iron | 75 | •65 | •60 |
| Lime | 7.73 | 6.94 | 7.78 |
| Magnesia | . traces | ·11 | .11 |
| Potash | . •96 | •96 | 1.00 |
| Soda. | . 5.09 | 5.09 | 5.14 |
| Loss by ignition | •45 | •30 | .00 |
| | 100.15 | 99.45 | 99.82 |

In another specimen the amount of lime was found to equal 7.89 per cent. The composition of this felspar is very nearly that of andesine, which, according to Abich, yields silica, 59.60; alumina, 24.18; peroxide of iron, 1.58; lime, 5.77; magnesia, 1.08; potash, 1.08; soda, 6.53=99.82.

The greenish base of the rock is generally finely granular and strongly coherent; the grains possess the cleavage, lustre, and hardness of felspar; the density of carefully chosen fragments was from 2.665 to 2.668. The greenish-white of the powder is changed to a fawn colour by ignition. When pulverized and digested with acetic acid, the mineral loses two or three thousandths of carbonate of lime, with traces of magnesia, iron oxide, and alumina. A portion which had been thus treated and carefully dried gave the following results :--

| | | IV. |
|------------------|---|---------------|
| Silica | • | 58 .50 |
| Alumina | | 25.80 |
| Peroxide of iron | | 1.00 |
| Lime | | 8.06 |
| Magnesia . | | •20 |
| Potash | | 1.16 |
| Soda | | 5.45 |
| Loss by ignition | | •40 |
| 10 | | |
| | | 100.57 |
| | | |

It is therefore a felspar differing but little from the crystalline andesine in composition.

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a

b

r

d

g

The hypersthene occurs in foliated masses with curved surfaces. Besides the basal cleavages thus exhibited, it cleaves readily with the sides of an oblique prism of 87°, and with its longer diagonal. The hardness of the mineral is 6, and its