SYSTEM

OF

MINERALOGY,

COMPREHENDING

ORYCTOGNOSY,
GEOGNOSY,
MINERALOGICAL CHEMISTRY,
MINERALOGICAL GEOGRAPHY, AND
ECONOMICAL MINERALOGY.

BY ROBERT JAMESON,

REGIUS PROFESSOR OF NATURAL HISTORY AND KEEPER OF THE MUSEUM IN THE UNIVERSITY OF EDINBURGH, FELLOW OF THE ROYAL AND ANTIQUARIAN SOCIETIES OF EDINBURGH, OF THE LINNEAN SOCIETY OF LONDON, HONORARY MEMBER OF THE ROYAL IRISH ACADEMY, OF THE MINERALOGICAL AND PHYSICAL SOCIETIES OF JENA, ETC.

VOL. II.

EDINBURGH:

PRINTED FOR BELL & BRADFUTE; GUTHRIE & TAIT; AND WILLIAM BLACKWOOD:
AND FOR LONGMAN, HURST, REES AND ORME, LONDON.

1805.

Conſtituent Parts.

Silica,	48
Alumina,	24.25
Oxide of iron,	1.75
Soda,	16.50
Water,	9
	99.50

Geographic and Geognoſtic Situations.

According to *Werner*, it is found in a variety of wacke; but *Klaproth* obſerved it moſt frequently in porphyry-ſlate. It has been hitherto found only in the mountains of Hohentwiel, Hohenkrähen and Magdeberg in Swabia, where it borders on Switzerland.

Obſervations.

It was firſt deſcribed and analyzed by *Klaproth*, who gave it the name *Natrolit*, on account of the great quantity of natron which he found it to contain.

Azurite.

Lazulith.—*Werner.*

External Characters.

Colour light indigo-blue, which is intermediate between ſmalt-blue and indigo-blue.

Occurs diſſeminated, ſeldom maſſive, and in imbedded cryſtals, that appear to be rectangular four-ſided priſms.

The

The cryſtals are ſmall and very ſmall, and are very indiſtinct.

It is gliſtening and ſhining; the latter only on the foliated fracture.

Longitudinal fracture imperfect foliated, croſs-fracture uneven.

Fragments indeterminately angular.

Is tranſlucent on the edges.

Is ſoft?

Not particularly heavy.

Chemical Characters.

It is infuſible without addition, only it loſes its colour, and becomes earthy and grey. With borax it yields a yellow-coloured glaſs. It is very freely acted on by acids. *Klaproth.*

Conſtituent Parts.

Klaproth found it to be compoſed of ſilica, alumina, and oxide of iron. It neither contains copper, nor is it, as had been ſuſpected, native Pruſſian blue.

Geognoſtic Situation.

It is found in mica-ſlate, but its repoſitory has not been accurately aſcertained.

Geographic Situation.

It occurs at Vorau in Stiria, but the moſt beautiful ſpecimens are found in the biſhopric of Salzburg.

Obſervations.

Obſervations.

It is diſtinguiſhed from Azureſtone, that although it occurs in quartz, it is never accompanied with iron-pyrites: beſides this, azureſtone has a dark colour, foliated fracture, ſcarcely occurs cryſtallized, and is ſemihard in a high degree.

Andaluſite, or Hardſpar.

Andaluſit auch Hartſpath.—*Werner.*

External Characters.

Colour fleſh-red, which ſometimes approaches to roſe-red.

Occurs maſſive, and cryſtallized in rectangular four-ſided priſms.

Fracture imperfect foliated: *Werner* has not aſcertained its cleavage, and the obſervations of *Hauy* are ſtill not ſufficiently preciſe.

Fragments indeterminately angular.

It is tranſlucent.

Hard in a high degree: According to *Hauy*, ſcratches quartz, and ſometimes even ſpinelle.

Eaſily frangible; and

Not particularly heavy, but heavier than felſpar.

Specific gravity, 3.165, *Hauy.*

Chemical Character.

It is infuſible, without addition, before the blow-pipe.

Geognoſtic