

J. H. 1825.

TREATISE
ON
MINERALOGY,
OR THE
NATURAL HISTORY OF THE MINERAL KINGDOM.

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H. = 3.5 ... 4.5.

G. = 4.4 ... 4.7.

Rhomboidal Iron-Pyrites or Magnetic Pyrites. J. ii. 465.

V. COPPER-PYRITES. Tessular, pyramidal.

Colour brass-yellow, copper-red.

H. = 3.0 ... 4.0.

G. = 4.1 ... 5.1.

1. OCTAHEDRAL. Tessular.

Cleavage, octahedron, very indistinct.

Colour copper-red.

H. = 3.0.

G. = 4.9 ... 5.1.

Variegated Copper. J.

ii. 467.

2. PYRAMIDAL. Hemi-pyramidal with inclined faces. P

= 109° 53', 108° 40'.

Cleavage, P + 1 = 101° 49', 126° 11'.

Colour brass-yellow.

H. = 3.5 ... 4.0.

G. = 4.1 ... 4.3.

Pyramidal Copper-Pyrites. J.

ii. 469.

Cobalt Kies³ J.

iii. 88.

Nickeliferous Grey Antimony. J.

iii. 131.

XI. ORDER. GLANCE.

I. COPPER-GLANCE. Tessular, prismatic.

Colour blackish lead-grey, steel-grey, black.

Cleavage, indistinct, not axotomous.

H. = 2.5 ... 4.0.

G. = 4.4 ... 5.8.

1. TETRAHEDRAL. Semi-tessular with inclined faces.

Cleavage, octahedron.

Colour steel-grey ... iron-black.

H. = 3.0 ... 4.0.

G. = 4.4 ... 5.2.

Tetrahedral Copper-Glance. J.

iii. 1.

2. PRISMATOIDAL. Prismatic.

Cleavage, $\check{P}r + \infty$.

Colour blackish lead-grey.

Brittle.

H. = 3.0.

G. = 5.7 ... 5.8.

Prismatoidal Copper-Glance. J.

iii. 4.

3. DI-PRISMATIC. Prismatic. $\check{P}r - 1 = 87^\circ 8'$; $(\check{P}r + \infty)^2 = 96^\circ 31'$.Cleavage, $\check{P}r + \infty$. $\check{P}r + \infty$. The former rather more distinct.

Colour steel-grey, inclining to lead-grey or iron-black.

Brittle.

H. = 2.5 ... 3.0.

G. = 5.7 ... 5.8.

Bournonite.

iii. 5.

4. PRISMATIC. Prismatic. $\check{P}r = 119^\circ 35'$; $(\check{P}r + \infty)^2 = 63^\circ 48'$.Cleavage, $\check{P}r$, very imperfect.

Colour blackish lead-grey.

Very sectile.

H. = 2.5 ... 3.0.

G. = 5.5 ... 5.8.

Prismatic Copper-Glance or Vitreous Copper. J. iii. 8.

II. SILVER-GLANCE. Tessular.

Colour blackish lead-grey.

H. = 2.0 ... 2.5.

G. = 6.9 ... 7.2.

1. **HEXAHEDRAL.** Tessular.

Cleavage, traces of the dodecahedron.

Malleable.

Hexahedral Silver-Glance. J.

iii. 11.

III. LEAD-GLANCE. Tessular.

Colour pure lead-grey.

H. = 2.5.

G. = 7.4 ... 7.6.

1. **HEXAHEDRAL.** Tessular.

Cleavage, hexahedron, perfect.

Hexahedral Galena or Lead-Glance. J.

iii. 13.

IV. TELLURIUM-GLANCE. Prismatic.

Colour blackish lead-grey.

Cleavage monotomous, perfect.

H. = 1.0 ... 1.5.

G. = 7.0 ... 7.1.

1. **PRISMATIC.** Prismatic.

Cleavage, axotomous or prismatic.

Prismatic Tellurium-Glance. J.

iii. 16.

V. MOLYBDENA-GLANCE. Rhombohedral.

Colour pure lead-grey.

Thin laminæ very flexible.

H. = 1.0 ... 1.5.

G. = 4.4 ... 4.6.

1. **RHOMBOHEDRAL.** Di-rhomboidal.

Cleavage, R — ∞, perfect.

Rhomboidal Molybdena. J.

iii. 18.

VI. BISMUTH-GLANCE. Prismatic.

Colour pure lead-grey.

$$H. = 2.0 \dots 2.5.$$

$$G. = 6.1 \dots 6.4.$$

1. PRISMATIC. Prismatic.

Cleavage, $P + \infty = 90^\circ$, nearly; also $\check{P}r + \infty$ and $Pr + \infty$, one of them highly perfect.

Prismatic Bismuth-Glance. J.

iii. 19.

VII. ANTIMONY-GLANCE. Prismatic.

Colour lead-grey, not blackish, steel-grey.

Cleavage, perfect.

$$H. = 1.5 \dots 2.5.$$

$$G. = 4.2 \dots 5.8.$$

G. under 5.3 : H. = 2.0 : thin laminae
not very flexible.

G. above 5.3 : colour steel-grey.

1. PRISMATIC. Prismatic.

Cleavage, $\check{P}r + \infty$, perfect in a high degree. Less apparent, $Pr + \infty$.

Colour pure steel-grey.

$$H. = 1.5 \dots 2.0.$$

$$G. = 5.7 \dots 5.8.$$

Prismatic Antimony Glance. J.

iii. 21.

2. PRISMATOIDAL. Prismatic. $P = 109^\circ 16'$, $108^\circ 10'$, $110^\circ 59'$.

Cleavage, $\check{P}r + \infty$, highly perfect. Less apparent, $P - \infty$. $P + \infty = 90^\circ 45'$. $Pr + \infty$.

Colour lead-grey.

$$H. = 2.0.$$

$$G. = 4.2 \dots 4.7.$$

Grey Antimony. J.

iii. 23.

3. AXOTOMOUS. Prismatic.

Cleavage, $P - \infty$, perfect. $P + \infty = 101^\circ 20'$; $\check{P}r + \infty$.

Colour steel-grey.

H. = 2.0 ... 2.5.

G. = 5.5 ... 5.8.

Jamesonite.

iii. 26.

VIII. MELANE-GLANCE. Prismatic.

Colour iron-black.

H. = 2.0 ... 2.5.

G. = 5.9 ... 6.4.

1. PRISMATIC. Prismatic. $\text{Pr} = 115^\circ 39'$.Cleavage, $(\text{Pr} + \infty)^2 = 72^\circ 13'$. $\text{Pr} + \infty$. Indistinct.*Prismatic Melane-Glance. J.* iii. 27.*Argentiferous Copper-Glance. J.* iii. 73.*Bismuthic Silver ? J.* iii. 78.*Cobaltic Galena. J.* iii. 88.*Cupreous Bismuth ? J.* iii. 91.*Eucairite.* iii. 94.*Flexible Sulphuret of Silver. PHILL.* iii. 30.*Molybdena-Silver. J.* iii. 127.*Native Nickel. J.* iii. 129.*Needle-Ore. J.* iii. 130.*Seleniuret of Copper. PHILL.* iii. 150.*Sulphuret of Silver and Antimony. PHILL.* iii. 30.*Tennantite.* iii. 161.*Tin-Pyrites. J.* iii. 163.*Yellow Tellurium ? J.* iii. 171.

XII. ORDER. BLENDE.

I. GLANCE-BLENDE. Tessular.

Streak green.

H. = 3.5 ... 4.0.

G. = 3.9 ... 4.05.