## CONTENTS

### PART I

1. **Observations on the Geology of Northumberland and Durham.** By N. J. Winch, Eq. F.L.S. Honorary Member of the Geological Society  
   - - - - - - p. 1

2. **On a Whin Dyle traversing Limestone in the County of Northumberland.** By the Hon. Henry Grey Bennet, M.P. F.R.S. Vice-President of the Geological Society  
   - - - - - p. 102

3. **Description of an insulated Group of Rocks of Slate and Greenstone, in Cumberland and Westmoreland on the east side of Appleby between Melnerby and Murton.** By the Rev. William Buckland, B.D. Professor of Mineralogy in the University of Oxford, and Member of the Geological Society  
   - - - - - p. 105

### PART II

4. **Observations on the Mountain Cruachan in Argyleshire; with some Remarks on the surrounding Country.** By John Mac Culloch, M.D. F.L.S. President of the Geological Society, Chemist to the Ordnance, Lecturer on Chemistry at the Royal Military Academy, and Geologist to the Trigonometrical Survey  
   - - - - - p. 117

5. **Account of some remarkable Disturbances in the Veins of the Mine called Huel Peeter, in Cornwall.** By John Williams, Esq. Honorary Member of the Geological Society  
   - - - - - p. 139

6. **Description of the Tunnel of the Tavistock Canal, through Morwel Down, in the County of Devon.** By John Taylor, Esq. Treasurer of the Geological Society  
   - - - - - p. 146
CONTENTS


VIII. On the Strata in the Neighbourhood of Bristol. By Richard Bright, M.D. Member of the Geological Society. With Notes, extracted from the Communications of George Cumberland, Esq. Honorary Member of the Geological Society - - - p. 193

Note on Magnesian Breccia. By Henry Warburton, Esq. Vice-President of the Geological Society - - - p. 205

IX. On the Magnesian Limestone and Red Marle or Sandstone of the Neighbourhood of Bristol. By W. H. Gilby, M.D. - p. 210

X. On the Strata at Whorlbury Camp, in Somersetshire. By George Cumberland, Esq. Honorary Member of the Geological Society - - p. 216


XII. Account of some attempts to ascertain the angles of the Primitive Crystals of Quartz and of the Sulphate of Barytes, by means of the reflecting Goniometer, together with practical reasons for presuming that the admeasurements assigned by Hauy to several varieties of the parallelopiped and of the octahedron are inaccurate. By William Phillips, Member of the Geological Society - - - p. 233

XIII. On the Measurement, by the reflecting Goniometer, of certain primitive Crystals; with Observations on the methods of obtaining them by mechanical division along the natural joints of Crystals. By William Phillips, Member of the Geological Society - - - p. 241

XIV. Supplementary Observations on Quartz Rock, made in 1814. By John Mac Culloch, M.D. F.L.S. President of the Geological Society, &c. &c. - - - - p. 264

XV. Description of a series of Specimens from the Plastic Clay near Reading, Berks. With Observations on the Formation to which those Beds belong. By the Rev. William Buckland, B.D. Member of the Geological Society, and Professor of Mineralogy in the University of Oxford - - - - p. 277
CONTENTS.


XVII. Geological Remarks on the Vicinity of Maestricht. By the Rev. W. E. Hony, Fellow of Exeter College, Oxford; Member of the Geological Society - - - - p. 310


XXI. On a peculiar Disposition of the Colouring Matters in a Schistose Rock. By John Mac Culloch, M.D. F.L.S. President of the Geological Society, &c. &c. - - - - p. 399

XXII. Memoranda relative to the Porphyritic Veins, &c. of St. Agnes in Cornwall. By the Rev. J. J. Conybeare, Member of the Geological Society - - - - p. 401


XXIV. Observations respecting the Limestone of Plymouth, extracted from two Letters, dated September 26, 1814, and January 19, 1815, addressed to Henry Warburton, Esq. Secretary. By the Rev. Richard Hennah, junr. Chaplain to the Forces at Plymouth p. 410

XXV. Description of the Paramoudra, a singular fossil body that is found in the Chalk of the North of Ireland; with some general Observations upon Flints in Chalk, tending to illustrate the History of their Formation. By the Rev. William Buckland, B.D. Member of the Geological Society, and Professor of Mineralogy in the University of Oxford - - - - p. 413

XXVI. Notice of Fossil Shells in the Slate of Tintagel. By the Rev. J. J. Conybeare, Member of the Geological Society - p. 424

XXVII. Notice of some peculiarities observed in the Gravel of Litchfield. By Arthur Aikin, Esq. Member of the Geological Society, and Secretary to the Society for the Encouragement of Arts, Manufactures, and Commerce - - - - p. 426
CONTENTS.

XXVIII. Analysis of one hundred parts of a dark Bituminous Limestone, from the Parish of Whiteford, in Flintshire, North Wales. By Edward Daniel Clarke, L.L.D. Professor of Mineralogy in the University of Cambridge, and Honorary Member of the Geological Society — p. 430


XXX. Notice concerning the Shropshire Witherite. By Arthur Aikin, Esq. Member of the Geological Society, and Secretary to the Society for the Encouragement of Arts, Manufactures and Commerce — p. 438

XXXI. Extracts from the Minute Book of the Geological Society — p. 443

List of Donations — — — — — — — — — p. 451

Index — — — — — — — — — — — — p. 459