

Royal Society.

On Thursday, November 8th, this Society held its first meeting for the season. It was very numerously attended. A paper by Sir Everard Home on the structure of the eye was read.

The *Second Part* of the Philosophical Transactions of this Society for 1821, has just been published: it consists of the following papers:—

An Account of Experiments to determine the Times of the Vibration of the Pendulum in different latitudes. By Capt. E. SABINE.

Some Observations and Experiments on the Papyri, found in the Ruins of Herculaneum. By Sir HUMPHRY DAVY, Bart.

Observations on Napthaline, a peculiar substance resembling a concrete essential oil, which is apparently produced during the decomposition of Coal Tar. By J. KIDD, M. D.

We mentioned this substance, to which Dr. Kidd proposes to give the name of *Napthaline*, in our first volume, page 142.

On the Aberrations of Compound Lenses and Object Glasses. By J. F. W. HERSCHELL, Esq.

An Account of the Skeletons of the Dugong, two-horned Rhinoceros, and a Tapir of Sumatra. By Sir EVERARD HOME, Bart.

Sir E. Home informs us, that while this paper was printing, he went to the Missionary Society House in the Old Jewry, and inspected the horns of a double-horned Rhinoceros, brought from the interior of Africa, by Mr. Campbell. As far as it respects the appearance of the horns, it is entirely a new species. The lowest horn

little upwards. It is a yard long, very small at the point, and two feet in circumference, at the base. The small horn is close to it, and stands perpendicularly behind the base of the long one; this is only twelve inches high, while the circumference of its base is equal to the larger horn. There can be no doubt of this being the animal that has given rise to the various reports of the true unicorn having been at last discovered in Africa.

On the mean Density of the Earth. By Dr. CHARLES HUTTON.

From a history and detail of various experiments, Dr. Hutton thinks it highly probable, that the earth's mean density, is very nearly five times the density of water; but not higher.

On the Separation of Iron from other Metals. By J. F. W. HERSCHELL, Esq.

On the Re-establishment of a Canal, in the place of a portion of the Urethra, which had been destroyed. By HENRY EARL, Esq.

This paper is highly deserving the attention of the anatomist and surgeon.

Calculations of some Observations of the Solar Eclipse, on the 7th of September, 1820. By Mr. CHARLES RUMKER.

An Account of the Re-measurement of the Cube, Cylinder, and Sphere, used by the late Sir GEORGE SHUCKBURGH EVELYN, in his Enquiries respecting a Standard of Weights and Measures. By Capt. H. KATER.

An Account of Observations made with the eight-foot Astronomical Circle, at the Observatory, Dublin, since the beginning of the year 1818, for investigating the Effects of Parallax and Aberration on the places of cer-

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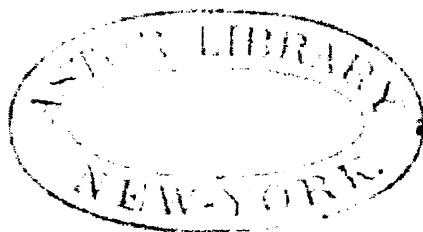
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