

then be collected, like the heavy powders in air, at the nodal lines. In a denser medium, such as water, the reverse should happen ; the heavy powders should be carried along by the more powerful currents then produced, and would accumulate in the vibrating parts. All these conclusions were found to be fully verified by actual experiment.

May 19.

JOHN W. LUBBOCK, Esq. M.A., V. P. & Treasurer, in the Chair.

The following Presents were received, and thanks ordered for them :—

The Astronomical Remembrancer. Proposed by Captain W. H. Smyth, R.N., F.R.S. : exhibiting the Magnitude, Declination, Right Ascension, and Passage in mean time over the Meridian, of one Hundred of the Principal Fixed Stars.—*Presented by G. Dollond, Esq., F.R.S.*

A Narrative of a Visit to the Court of Sinde ; a Sketch of the History of Cutch, from its first connection with the British Government in India till the conclusion of the Treaty of 1819 ; and some Remarks on the Medical Topography of Bhooj. By James Burnes, Esq. 8vo.—*The Author ; through Joseph Hume, Esq. F.R.S.*
 Catalogue of the Library of the Royal College of Surgeons in London. 8vo.—*The College.*

Catalogue of the Contents of the Museum of the Royal College of Surgeons in London. Part III. : comprehending the Human and Comparative Osteology. 4to.—*The College.*

A Cast from the Marble Bust of Michael Faraday, Esq. F.R.S. executed by E. H. Bailey, R.A.—*Richard Hollier, Esq.*

A Portrait of Michael Faraday, Esq. F.R.S. engraved by Cousins from the Painting by Pickersgill.—*Messrs. Colnaghi and Son.*

A paper was read, entitled, “ A Table facilitating the Computations relative to Suspension Bridges.” By Davies Gilbert, Esq. V.P.R.S.

The table here communicated is supplementary to those accompanying the paper “ On the Mathematical Theory of Suspension Bridges,” which was published in the Philosophical Transactions for 1826, and is deduced from the first of the tables there given ; but admits of a far more ready application than the former to all cases of practical investigation. It consists of five columns, exhibiting respectively the deflections or versed sines of the curve ; the lengths of the chains ; the tension at the middle points, or apices of the curve ; the tensions at the extremities ; and the angles made by the chains with the horizon at the extremities.

A paper was read, entitled, “ Researches in Physical Astro-