fact, a solution containing four arbitrary constants, given (with some misprints) in the “Memoir on Matrices,” and which (for convenience changing the signs) is as follows :—

$$L = \left(\begin{array}{ccc} -a & (\beta + \gamma) \frac{\lambda}{\mu} & (\beta + \gamma) \frac{\lambda}{\nu} \\ \frac{a + \beta + \gamma}{a + \beta + \gamma}, & \frac{a + \beta + \gamma}{a + \beta + \gamma}, & \frac{a + \beta + \gamma}{a + \beta + \gamma} \\ (\gamma + a) \frac{\mu}{\lambda} & -\beta & (\gamma + a) \frac{\mu}{\nu} \\ \frac{a + \beta + \gamma}{a + \beta + \gamma}, & \frac{a + \beta + \gamma}{a + \beta + \gamma}, & \frac{a + \beta + \gamma}{a + \beta + \gamma} \\ (a + \beta) \frac{\nu}{\lambda} & (a + \beta) \frac{\nu}{\mu} & -\gamma \\ \frac{a + \beta + \gamma}{a + \beta + \gamma}, & \frac{a + \beta + \gamma}{a + \beta + \gamma}, & \frac{a + \beta + \gamma}{a + \beta + \gamma} \end{array} \right),$$

(or, what is the same thing, we may omit the denominators, assuming $a + \beta + \gamma = 1$); it is, in fact, easy to verify that this has for its square the matrix unity. Moreover, we have, as above, $p = -1, q = -1, r = 1$.

- 2. Second Note on the Strain Function. By Prof. Tait.
- 3. Note on the Rate of Cooling at High Temperatures. By Professor Tait.
- 4. Notice of a Large Boulder in the Parish of Rattray, and County of Perth, having on one of its sides Cups and Grooves, apparently artificial. By D. Milne Home.

About a year ago, the Council of this Society appointed a Committee to make inquiry about boulders in Scotland. The Committee intend to submit to the Council a general report of their proceedings, showing the progress made. The object of the present notice is to give to the Society an account of one of the boulders reported to the Committee, as a specimen of the information which they have been obtaining. The Rev. Mr Herdman, minister of Rattray, in Perthshire, sent to the Committee an answer to their circular, specifying the following boulders and standing stones in his parish :—