Riemann's "Partielle Differentialgleichungen;" Heine's "Kugelfunctionen," vol. ii., pp. 302-332; Todhunter's "Functions of Laplace, Lamé, and Bessel;" Jordan's "Cours d'Analyse, vol. iii., chap. iii., Part iv.

The notice now given has, of course, no pretentions to being exhaustive; but it may perhaps serve a useful purpose in helping one to follow the development of the theory whose basis Fourier so thoroughly established.

Second Meeting, December 14th, 1888.

GEORGE A. GIBSON, Esq., M.A., President, in the Chair.

On the general equation of the second degree representing a pair of straight lines.

By DAVID MUNN, M.A.

Kötters synthetic geometry of algebraic curves—Part I, imaginary curves.

By Rev. NORMAN FRASER, M.A.

[See Index.]

Third Meeting, January 11th, 1889.

GEORGE A. GIBSON, Esq., M.A., President, in the Chair.

Note on a Formula in Quaternions.

By R. E. ALLARDICE, M.A.

The formula referred is the condition for the coplanarity of the extremities of four coinitial vectors; namely, if α, β, γ, δ, are the vectors, then

$$a\alpha + b\beta + c\gamma + d\delta = 0, \text{ where } a + b + c + d = 0.$$

(See Kelland and Tait's Quaternions, p. 62.)

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