# MATHEMATICAL NOTES

A Review of Elementary Mathematics and Science

PUBLISHED BY THE

## EDINBURGH

### MATHEMATICAL SOCIETY

EDITED BY

P. PINKERTON, M.A., D.Sc.

#### Edinburgh:

Printed for the Edinburgh Mathematical Society by LINDSAY & CO., 17 Blackfriars Street.

1913.

#### CONTENTS.

	PAGE
Whewell's Puzzle	135
J. S. MACKAY, M.A., LL.D.	
On the Solubility of Linear Algebraic Equations (contd.)	• 137
JOHN DOUGALL, M.A., D.Sc.	
Proof of the sufficiency of the determinant condition for the consistency of a system of $n$ homogeneous linear equations in $n$ variables	139
JOHN DOUGALL, M.A., D.Sc.	07
On the necessary and sufficient condition for the degeneracy of a quadratic function of a number of	
variables	140
JOHN DOUGALL, M.A., D.Sc.	
On the sufficiency of the condition for a limit	141
THOMAS M. MACROBERT, M.A., B.Sc.	
All contributions and communications unforming	4.

"MATHEMATICAL NOTES" should be addressed to P. PINKERTON, George Watson's College, Edinburgh.

The Annual Subscription to the Edinburgh Mathematical Society is 7s. 6d. for ordinary members, who receive copies of *Mathematical Notes* and also of the *Proceedings* of the Society. Any desiring to become members should apply to the Hon. Sec., P. COMRIE, M.A., B.Sc., 19 Craighouse Terrace, Edinburgh.