Geometrical problem

Mr. J. Robotham

To cite this article: Mr. J. Robotham (1828) Geometrical problem, Philosophical Magazine Series 2, 3:15, 234-234, DOI: [10.1080/14786442808674630](https://doi.org/10.1080/14786442808674630)

To link to this article: <http://dx.doi.org/10.1080/14786442808674630>

Published online: 10 Jul 2009.

Submit your article to this journal [↗](#)

Article views: 4

View related articles [↗](#)

IODINE IN CADMIUM.

Iodine is found in the great zinc foundry at Königshute in Upper Silesia, in the cadmium which accompanies the zinc ores.—*Ibid.*

ANALYSIS OF THE GREEN IRON ORE AND ARSENIATE OF LEAD.

According to Dr. Karsten, a variety of this ore from the Hollester mines near Siegen, in Rhein Prussia, consists of

Oxide of iron	63.450
Phosphoric acid	27.717
Water	8.560

99.727

And according to the same authority, a variety of arseniate of lead from Herrhausen near Siegen, in Rhein Prussia, consists of

Oxide of lead	69.97
Muriatic acid	0.81
Arsenic acid	29.22

100.00

The results of this analysis are not accordant with those obtained by Dr. Wohler.—*Poggendorff's Annalen*, vol. iv. p. 161.

GEOMETRICAL PROBLEM. BY MR. J. ROBOTHAM.

Required, a square equal in area to the space comprised between the arcs [AB, DC, and EF, DC,] of two concentric circles, and two parallel right lines, tangents to the interior circle. The area of the exterior circle being double that of the interior.

Let ABFE, and $dCvD$ be the two concentric circles. Bisect the quadrant aof by the line oB . Then by the nature of the problem, the area $aBde = deo = eoC$. To each of these equals add the area eBC , then will the area of the space $aBCd$ = the area of the triangle oBC . And since $oa = oB$, the square, described on oa , viz. $aofb$ = 4 times the area of the triangle oBC = the space AB, DC, and EF, DC. Which may be seen by drawing the diagonal af .

SCIENTIFIC BOOKS.

Just Published.

The 19th Number of Leybourn's Mathematical Repository; containing twenty mathematical questions, and their answers, selected from an extensive correspondence.—*Horæ Arithmeticae*, by Mr. Horner.—*On Porisms*, by Mr. Galloway.—*On Central Forces*, by the Rev. Mr. Bromhead.—*On Equations*, by the Rev. Mr. Hawkes.

—On