

Intending authors are asked to note that as from Vol. 5
No. 1 the duties of editorship will be taken over by

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Papers and correspondence submitted for publication
following the appearance of this notice should be sent to
Dr. Dearman at the above address.

Geodesy

G. BOMFORD

This book aims at covering the whole field of geodesy, considered both as the basis of surveying and as a source of geophysical data. It has been almost entirely rewritten for the present edition. The treatment of new methods, such as those dependent on electromagnetic distance measurement, artificial satellites, and electronic computers, has been much expanded. There are appendices on matrices, vectors, complex numbers, and spherical harmonics as applied to geodetic problems. An appendix on the theory of errors and least squares describes methods of error analysis using the variance-covariance matrix of the unknowns. A section on gyroscopic theodolites has been included. Third edition 222 text figures £10

Theory of Metasomatic Zoning

D. S. KORZHINISKII

Translated by JEAN AGRELL

The author derives systems of differential equations for infiltration and diffusion metasomatic zoning and uses them to study the main features of these processes. The signs that distinguish between infiltration and diffusion formations are examined. Various cases of infiltration and diffusion metasomatism are considered, and a theory of bimetasomatism is developed. The presentation of theoretical aspects is accompanied by reference to geological examples, and conclusions are drawn concerning the geological significance of the proposed theory. 45 text figures £2.50

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Members of the Engineering Group are entitled to receive for their subscription the issues of the Quarterly Journal of Engineering Geology. On payment of an additional £1 on the annual subscription, members may obtain the Journal of the Geological Society in addition to the Quarterly Journal of Engineering Geology. Members of the Engineering Group resident overseas are entitled, on request, to receive either or both of the Journals for their annual subscription.

SI UNITS—Selected Conversion Factors

	<i>British</i>	<i>SI</i>	<i>Reciprocal</i>		<i>British</i>	<i>SI</i>	<i>Reciprocal</i>	
Length	1 in	25.4 mm	39.37×10^{-8}	Density	1 lb/ft ³	16.02 kg/m ³	62.43×10^{-8}	
	1 ft	0.3048 m	3.281		Force	1 lbf	4.448 N	0.2248
	1 mile	1.609 km			Force/Unit	1 lbf/ft	14.59 N/m	68.52×10^{-8}
Area	1 in ²	645.16 $\times 10^{-6}$ m ² (10^{-6} m ² = 1 mm ²)	1.550	Length	1 lb/in ²	6895 N/m ²	145.0×10^{-8}	
	1 ft ²	92.90×10^{-3} m ²	10.76		Pressure, Stress	1 tonf/in ²	15.444 $\times 10^6$ N/m ²	64.75×10^{-8}
	1 yd ²	0.8361 m ²			1 in Hg	3.386 kN/m ² (= 33.86 mb)		
	1 acre	4047 m ² (or 0.4047 ha)		Coefficient of Compressibility (Mv)	1 ft ² /ton	9.3 mm ² /N		
	1 mile ²	2.590 km ² (or 259 ha)						
Volume	1 in ³	16.39 cm ³		Moment, Torque	1 lbf in	0.1130 N m	8.850	
	1 ft ³	28.32×10^{-3} m ³	35.31	1 lbf ft	1.356 N m	0.7376		
	1 yd ³	0.7646 m ³	1.308	1 tonf ft	3037 N m	0.3293	$\times 10^{-8}$	
	1 pint	0.568 litre (1 litre = 10^{-3} m ³)		Temperature	1 degF	5/9 degC (Celsius)	9/5	
	1 gal	4.546 litres	220	Velocity	1 ft/min	5.08 mm/s		
Mass	1 lb	0.4536 kg	2.205	Volume Rate of Flow	1 gal/s	4.546 dm ³ /s		
	1 ton	1.016 Mg			1 gal/h	1.210 cm ³ /s		