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FREDERICK SODDY

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OF MODERN KNOWLEDGE

No. 43

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MATTER AND ENERGY

BY
FREDERICK SODDY

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LECTURES IN PHYSICAL CHEMISTRY AND RADIOACTIVITY
UNIVERSITY OF GLASGOW



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PERIODIC TABLE

Group O.	Group I.	Group II.	Group III.	Group IV.	Group V.
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Neon Ne 20.2	Sodium Na 23.00	Magnesium Mg 24.32	Aluminium Al 27.1	Silicon Si 28.3	Phosphorus P 31.04
Argon A 39.98	Potassium K 39.10	Calcium Ca 40.07	Scandium Sc 44.1	Titanium Ti 48.1	(Vanadium V 51.0
	Copper Cu 63.57	Zinc Zn 65.37	Gallium Ga 69.9	Germanium Ge 72.3) Arsenic As 74.98
Krypton Kr 83.92	Rubidium Rb 85.45	Strontium Sr 87.63	Yttrium Yt 88.9	Zirconium Zr 90.8	(Niobium Nb 92.9
	Silver Ag 107.88	Cadmium Cd 112.40	Iodine Iu 124.9	Tin Sn 118.9) Antimony Sb 120.2
Xenon Xe 136.3	Caesium Cs 132.91	Barium Ba 137.37	[Lanthanum La 139.0		Cerium Ce 140.26
	Europium Eu 153.9	Gadolinium Gd 157.3	Terbium Tb 158.9		
	Thulium Tm 168.9	Ytterbium Yb 173.0	Lutetium Lu 174.9		(Tantalum Ta 181.0
	Gold Au 197.2	Mercury Hg 200.6	Thallium Tl 204.0	Lead Pb 207.19) Bismuth Bi 208.0
Radium Emanation 222		Radium Ra 226.4		Thorium Th 232.4	

OF THE ELEMENTS

Group VI.	Group VII.	Group VIII.		
Oxygen O 16.00	Fluorine F 19.0			
Sulphur S 32.07	Chlorine Cl 35.46			
Chromium Cr 52.0	Manganese Mn 54.93	Iron Fe 55.84	Cobalt Co 58.97	Nickel Ni 58.69
Selenium Se 79.2	Bromine Br 79.92			
Molybdenum Mo 95.9	—	Ruthenium Ru 101.1	Rhodium Rh 108.1	Palladium Pd 106.7
Tellurium Te 127.5	Iodine I 126.9			
Praseodymium Pr 140.3		Neodymium Nd 144.3	Samarium Sm 150.4	
Dysprosium Dy 162.5		Erbium Er 167.7		
Tungsten W 184.0	—	Osmium Os 190.0	Iridium Ir 196.1	Platinum Pt 195.2
(Polonium)				
Uranium U 238.5				