

ATOMIC STRUCTURE

Particle	Symbol	Charge	Relative charge	Mass	Relative mass w.r.t H	$\frac{e}{m}$ ratio
Electron	e^-	$-1.6 \times 10^{-19} \text{ C}$	-1	$9.1 \times 10^{-28} \text{ gram}$	$\frac{1}{1837}$	1837
Proton	p^+	$+1.6 \times 10^{-19} \text{ C}$	+1	$1.672 \times 10^{-24} \text{ g}$	1	1
Neutron	n^0	Zero	Zero	$1.672 \times 10^{-24} \text{ g}$	1	0
α -Particle	${}_2\text{He}^+$	$2 \times 1.6 \times 10^{-19} \text{ C}$	+2	$4 \times 1.672 \times 10^{-24} \text{ g}$	4	$\frac{1}{2}$

Thomson's atomic model

(Plum pudding / Watermelon model)

- +ve charge \rightarrow uniformly distributed
- -ve charge \rightarrow embedded in cloud of the charge.
- Limitation \rightarrow doesn't explain stability

Rutherford's experiment

(Discovery of nucleus)

Atom $\begin{cases} \rightarrow \text{Nucleus (Proton)} \\ \rightarrow \text{Extranuclear part (e}^-) \end{cases}$

$$r_{\text{nucleus}} = K(A)^{1/3}$$

$$\left(\frac{dr_{\text{nuc}}}{dA}\right)_1 = \left(\frac{A_1}{A_2}\right)^{1/3}$$

$$V_{\text{nucleus}} = \frac{4}{3} \pi R^3 A$$

$$\frac{V_{\text{nuc}1}}{V_{\text{nuc}2}} = \frac{A_1}{A_2}$$

$$V_{\text{atom}} \approx 10^{15} \times V_{\text{nucleus}}$$

Term associated with element

Z $\begin{cases} \nearrow A \rightarrow \text{Mass number (P+n)} \\ \searrow \rightarrow \text{Atomic number (P)} \end{cases}$

- **Isotope** $\rightarrow Z \rightarrow$ same $A \rightarrow$ different
- **Isobar** $\rightarrow Z \rightarrow$ different $A \rightarrow$ same
- **Isotone** $\rightarrow A - Z = n \rightarrow$ same
- **Isotectonic** \rightarrow Same no. of e^- (NO^0, CO)
- **Isosteric** \rightarrow Same no. of atom and e^- (CO_2, N_2)
- **Isotophers** $\rightarrow (n-p) \text{ or } (A-2Z) \rightarrow$ same
- **Paramagnetic** \rightarrow Having nonzero unpaired e^-
- **Diamagnetic** \rightarrow Having zero unpaired e^-

Dual nature of light

Wave nature

• Wave length (λ)
distance between crest or trough or length of one wave.

• Wave no. $\left[\nu = \frac{1}{\lambda} \right]$

• frequency $\left[\nu = \frac{c}{\lambda} \right]$

$c \rightarrow 3 \times 10^8 \text{ m/s}$

$\nu \propto \frac{1}{\lambda} \rightarrow \left[\frac{\nu_1}{\nu_2} = \frac{\lambda_2}{\lambda_1} \right]$

Particle nature

• photon \rightarrow quanta of light.

$$E = h\nu$$

$h \rightarrow$ plank's constant
 $h = 6.6 \times 10^{-34} \text{ joule sec}$

$$E = n \times E_{\text{min}}$$

\downarrow
integral multiple

$$E = h\nu = \frac{hc}{\lambda}$$

$$\frac{E_1}{E_2} = \frac{\nu_1}{\nu_2} \quad \frac{E_1}{E_2} = \frac{\lambda_2}{\lambda_1}$$

Photoelectric effect

- example of particle nature.
- Surface phenomena
- Single photon release single e^-

$$h\nu = \omega + KE \quad \omega \rightarrow \text{work function}$$

$$h\nu = h\nu_0 + \frac{1}{2} m_e v_e^2 \quad \nu \rightarrow \text{incident frequency of photon}$$

$$\frac{hc}{\lambda} = \frac{hc}{\lambda_0} + \frac{1}{2} m_e v_e^2 \quad \nu_0 \rightarrow \text{Threshold frequency of metal.}$$

$\nu > \nu_0 \rightarrow e^-$ emitted with KE
($\lambda < \lambda_0$)

$\nu = \nu_0 \rightarrow e^-$ emitted without KE
($\lambda = \lambda_0$)

$\nu < \nu_0 \rightarrow e^-$ not emitted.
($\lambda > \lambda_0$)

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Recollections of a Scientist 1 Boyhood and Youth in Australia 1925 1948 This illustrated book is the first volume of the Memoirs of a distinguished internationally renowned scientist Professor Norman N Greenwood FRS It gives a lively and intimate account of his boyhood and youth in Australia during the nineteen thirties and forties and is divided into thirteen chapters It is a personal account rather than a formal history and describes in refreshing detail his richly diverse experiences Chapter 1 explains how he came to be born in Melbourne although both of his parents as well as his elder sister and younger brother were all born in Northern England his father Professor John Neill Greenwood had just been appointed as the first

Professor of Metallurgy in an Australian University The scene is further set by a brief account of the extraordinary events that led up to the founding of the University of Melbourne following the Victorian Gold Rush of the mid nineteenth century and its subsequent development into one of the major Universities of the then British Empire The young family settled in Mont Albert one of the developing eastern suburbs of the expanding metropolis but unfortunately his parents separated soon afterwards and subsequently divorced The children moved with their mother to the neighbouring suburb of Surrey Hills and one of her sisters came out from England to help with the growing family Norman goes on to describe the various schools he attended and has some perceptive comments on his teachers the ethos of the schools and the gradual changes that have occurred in the approach to education in Victoria over the years since the nineteen thirties Initially vacations were spent at a country cottage being built by his father at Kinglake in the densely wooded hills to the north of Melbourne and Norman evokes a childhood view of the exotic plants and animals of the bush the deep secluded tree fern gullies and tumbling mountain streams His father was one of the main protagonists for the development of the Kinglake National Park which he had helped to found Tragically much of the Park was engulfed by the enormous bush fires the worst in Australia s history that wiped out the little township of Kinglake with great loss of life in February 2009 Other holidays were spent on the beaches of Port Phillip Bay or on the cooler slopes of the Dandenong Ranges to the east Norman and his younger brother Eric always known in his youth as Peter or Nipper loved roaming in the Olinda State Forest and Sherwood Forest where the tall mountain ash eucalyptus trees towered above the dense undergrowth of tree ferns and other plants Bush animals abounded as did the raucous cockatoos and multicoloured parrots The great prize however was to sight a lyre bird performing his stately dance and singing his amazing repertoire of all the other birds songs and even the man mad sounds of car horns chain saws and steam engines For the three years 1939 40 41 Norman attended University High School near the city centre and adjacent to the grounds of the University itself It was a remarkable school with an excellent academic reputation but also known for fostering of musical talent and for its prowess in sport Norman joined the School Orchestra as second flute and they gave concerts in the Melbourne Town Hall and occasionally on the State broadcasting station 3LO He also edited the School Magazine The Record perhaps an early portent of his later prolific output of scientific research papers reviews monographs and textbooks In the summer vacation of January 1940 during which Norman had his fifteenth birthday he went on and extended 1300 mile concert party tour of twenty eight country towns in Western Victoria and over the border into South Australia The trip was organised by the Young Australia League YAL and took the form of a White Minstrels Review of thirty boys with songs i

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