

Although it would be possible to mount the usual ionisation chamber on a similar vertical circle the mechanical difficulties would be very considerable. These are avoided in the present instrument by reason of its small size. It would not be possible to make it so small but for the electrometer invented by Professor Schonland. This consists of a simple leaf-electroscope in which a thin platinised rectangular piece of mica, A, replaces the usual gold-leaf. The mica, because of its rigidity, is capable of acting as a mirror even when thin enough for the moving part of the electroscope, and a large magnification of the movement of the leaf is obtained by receiving the reflected beam on a vertical scale about 50 cms. away. The X-rays after passing through the thin cylindrical aluminium window BB produce ionisation in the space indicated by the shading, the apparatus being filled with argon. The whole electrometer and ionisation chamber is mounted on gimbals so that it takes up a parallel position at every point round the vertical circle. In this way the zero of the mica mirror can always be made to come to the same point on the scale. In addition to increasing the ease of observing the X-ray intensities, this system is rather more sensitive to X-rays than the usual ionisation spectrometer.

## SOME MODERN DEVELOPMENTS OF WAVE MECHANICS AND THEIR BEARING ON THE UNDERSTANDING OF CRYSTAL STRUCTURE.

BY P. P. EWALD (*Stuttgart*).\*

(*Delivered before the Society on 15th March, 1929.*)

### 1. The Schroedinger Picture of the Atom.

Wave mechanics gives a far simpler picture of an atom than the former complicated orbits of the planetary system of electrons. The greatest difference between the new and the old theory of the atom is that any given electron cannot any longer be given a particular location in the atom. Only statistical statements as to the location of the electric charges are possible. We may speak of an electric density  $\rho$  in the interior of the atom, in the sense, perhaps, of a time average of the positions of the electron. At all events we may use this density for calculating the effect of the atom on its environment as if the space charge  $\rho$  were a real density of electric charge.  $\rho$  is given by the square of the quantity  $\psi$  the fundamental mathematical quantity in Schroedinger's theory, which is determined by a differential equation closely related to Hamilton's differential equation in ordinary mechanics. This equation is

$$\Delta\psi + \frac{8\pi^2m}{h^2}(E - V)\psi = 0 \quad . \quad . \quad . \quad (1)$$

Here  $m$  is the mass of the electron,  $V$  the potential acting on it, which may originate in the central charge of the atom,  $h$  is Planck's constant, and  $E$  the total energy of the atom. This equation is the same as that occurring in classical dynamics for vibrations of a given frequency propagated in an

\* The author's thanks are due to Mr. and Mrs. Wooster who kindly revised the MS. for style.

# Modern Developments In The Mechanics Of

**Leandro Pardo**



## **Modern Developments In The Mechanics Of:**

## **Modern Developments In The Mechanics Of** Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become much more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Modern Developments In The Mechanics Of**," written by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we will delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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