COMBUSTION, FLAMES & EXPLOSIONS OF GASES

By B. LEWIS and G. von ELBE.   *21s. net*

The interest in combustion phenomena, shared alike by chemists, physicists, and engineers, has led to a large number of investigations which vary widely in purpose and accomplishment as well as in actual scientific value. The need was for co-ordination and critical appraisal of these recorded investigations. This is the first purpose of the present book. Secondly, believing that well-founded speculation has great value as a stimulus to further research, the authors have not hesitated to express rather definite views on some highly controversial subjects.

NEGATIVE IONS

By H. S. W. MASSEY.   *6s. net*

It is the purpose of this tract to discuss the nature and properties of negative ions as determined partly by experiment and partly from quantum theory. Contrary to the usage in works on electron mobilities, we understand the term negative ion to apply to particles of molecular mass only, while, at the same time, we make no attempt to discuss the properties of ion clusters. In short, we are concerned with negative ions formed in gases at low pressures (up to a few mm. Hg). This does not affect the applicability of our conclusions to most electric discharge phenomena, nor to the study of the Earth's ionosphere.

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