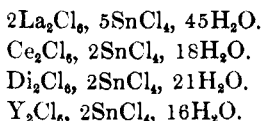


*On the Relation Existing between the Chemical Composition and the Mechanical Properties of Steels*, V. DESHAYES, Eng. at Terre-Noire.—Not suitable for abstraction. An elaborate article, giving complete details in regard to this important subject.

*Idem*, No. 5.

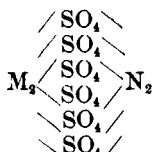
*Note upon a Recent Work of M. B. Aronheim*, P. SCHUTZENBERGER.

*On the Chlorostannates of the Rare Earths*, P. T. CLEVE. — The following have been prepared :

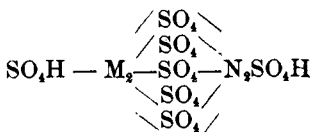


The composition of the chlorostannates is thus shown to be perfectly analogous to that of the chloroplatinates.

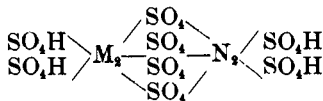
*Researches upon Sulphates*, A. ETARD.—Most mixed sesquisulphates can be represented by the general formula  $\text{M}_2(\text{SO}_4)_6\text{N}_2$ . Only one salt of the type,  $2[\text{M}_2(\text{SO}_4)_3]\text{N}_2(\text{SO}_4)_3$ , has been observed. According to the theory of the author, by heat the acid salt changes as follows :



Neutral Salt.



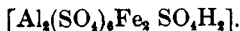
First acid salt.



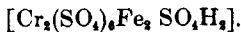
Second acid salt.

Some of the salts made are :

Acid double sulphate of iron and alumina—



Acid sesquisulphate of iron and chromium—



Sesquisulphate of aluminum and manganese—

