



# Peroxides, Superoxides, and Ozonides of Alkali and Alkaline Earth Metals

*I. I. Volnov*

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## **Peroxides, Superoxides, and Ozonides of Alkali and Alkaline Earth Metals I. I. Volnov**

Since the early 1930's, Soviet chemists have played a leading role in the study of unfamiliar oxidation state compounds of the peroxide, superoxide, and ozonide types. Interest in the alkali and alkaline earth metal derivatives is now widespread and diverse, and numerous practical applications of these compounds have evolved, ranging from their use as air revitalization materials in space cabins to their use in compounding semiconductor materials. Professor Vol'nov is eminently qualified to write this monograph since for many years he has been a leading investigator and prolific writer in the field of peroxide, superoxide, and ozonide chemistry. He has succeeded in presenting a lucid and detailed discussion of past work, the present state, and the future potential of this area of unfamiliar oxidation state chemistry. Of particular interest is Professor Vol'nov's extensive compilation of available thermodynamic, kinetic, and structural data for the alkali and alkaline earth peroxides, superoxides, and ozonides. In addition, he has reviewed the known methods of synthesis, as well as the practical applications for which these compounds are suited. This monograph will be of interest and value to chemists, not only for the information it imparts, but equally for the information it does not impart, thereby illuminating the research paths and investigation which must be undertaken in order to increase our knowledge concerning the chemistry of this important class of chemical compounds.

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