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# CORROSION

## Causes and Prevention

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THIRD EDITION

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## PREFACE TO THE THIRD EDITION

Since the second edition of this book appeared, developments in the knowledge of corrosion, particularly of its prevention, have been truly remarkable. This has necessitated extensive revision and additions to this book. However, the author has endeavored to give a comprehensive view of the subject for the general reader without more technical detail than is necessary for a sound understanding of the many factors involved in this problem and the principles of corrosion prevention, based mainly upon ferrous metals. Data on the corrosion properties of nonferrous metals will be found in the "Corrosion Handbook" and in many technical papers.

Some phases of the subject could only be presented in outline without unduly extending the work. In such cases, selected references are given as a guide to the readers who desire to follow the subject in more detail. A general bibliography is not included in this edition as current monthly bibliographies are now available. New sections on Biological Influences and Cathodic Protection have been added.

The science of corrosion and its prevention has become so specialized that a general treatise necessarily requires the cooperation of those who have made a special study of certain phases of the subject. In preparing most of these chapters, the author has been greatly assisted by his long personal contacts with many friends in the various fields whose work he has respected and admired. Collaboration of this kind is gratefully acknowledged in the various sections. The plan of discussion as outlined in Chapter 1 is much the same as in previous editions.

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