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STEAM POWER PLANT PIPING SYSTEMS

THEIR DESIGN, INSTALLATION, AND
MAINTENANCE

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BY
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Dedicated to

MY MOST ESTEEMED FRIEND AND FORMER ASSOCIATE

J. F. RANDALL, M.E.

WHO BY HIS TOLERANCE ENABLED ME

TO ENGAGE IN

POWER STATION DESIGN AND CONSTRUCTING.

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PREFACE

THIS publication treats only such parts of the power plant system as are directly related to piping. The design of boilers and engines has not been touched upon, but their operation has been covered. All auxiliary apparatus in the pipe circuit between the boiler and the engine and in the various piping systems for steam, oil, air, etc., have been treated and their general design discussed.

It was not the intention of the author to compile existing information and make a handy reference book, but rather to give a detailed and consecutive treatment of the entire subject of piping as applied to power stations, taking up the design, installation, and operation.

A better method of contracting this line of work has been fully discussed, one which will entail less expense both to the designer and to the contractor, and at the same time insure a higher grade of pipe work.

A system of reasoning and analyzing has been followed that alone in itself is very instructive.

The illustrations are all made from original sketches prepared especially for this work. The text embodies the personal experience of the author and is written entirely from the author's own point of view; therefore it is very probable that many will disagree with the methods of handling certain problems. The author will be grateful to all who disagree with him if they will freely offer suggestions and criticism which may be used in future editions.

W. L. M.

CHICAGO, ILL.