

QUARTZ OSCILLATORS.

by

Dr. P. VIGOUREUX.

The International Hydrographic Bureau has received from H.M. Stationery Office, London, a copy of a publication "Quartz Oscillators" by P. VIGOUREUX, D.Sc., A.C.G.I., D.I.C., A.M.I.E.E. formerly of the National Physical Laboratory, prepared by the Department of Scientific and Industrial Research. This is a republication of the former work entitled "Quartz Oscillators and their Applications" which was issued in 1928 but is now completely re-written and brought up to date, certain mathematical sections having been considerably simplified and others of historical interest only being omitted. More space is now devoted to a presentation of Voigt's theory of piezo-electricity, a chapter dealing with the thermal coefficients of frequency of various types of oscillators has been added, and the many applications of Quartz oscillators, including the all-important one of time measurement, have been grouped in a separate chapter.

The present volume consists of 131 pages divided into the following eleven chapters :

- | | | |
|---------|------|---|
| CHAPTER | I | — Quartz Crystals. |
| — | II | — Piezo-Electric Phenomena. |
| — | III | — The Quartz Resonator. |
| — | IV | — The Resonator in Electric Circuits. |
| — | V | — Luminous Resonator. |
| — | VI | — The Valve-maintained Quartz Oscillator. |
| — | VII | — Frequency and Thermal Coefficient of Frequency. |
| — | VIII | — Holders for Oscillators. |
| — | IX | — Nature of Vibrations. |
| — | X | — Applications. |
| — | XI | — Crystal Structure of Quartz. |

Then follows a List of References, and Authors and Subject Indexes.

This book is published by H.M. Stationery Office, price 4s 6d net and can be purchased directly from H.M. Stationery Office at the following addresses :

York House Kingsway, London, W.C. 2; 120 George Street, Edinburgh, 2.
 26 York Street, Manchester, 1; 1 St. Andrew's Crescent, Cardiff.
 80 Chichester Street, Belfast; or through any bookseller.

J. D. N.

