

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 :

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| 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.

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