

JOURNAL
OF THE
RADIO RESEARCH LABORATORIES

MARCH 1960

CONTENTS

I. On the Physical Properties and Composition of the Upper Atmosphere between 100 and 400 Kilometers above Ground in Middle Latitudes *By T. Yonezawa* 69

II. Vertical Distribution of Radio Refractive Index in the Medium Height of Atmosphere *By K. Tao and K. Hirao* 85

III. Non-Seasonal Variation in the E Layer Ionization . . *By T. Shinazaki* 95

IV. Precision Thermostat for the Frequency Standards . . . *By Y. Hiruta* 111

V. Experimental Test of Reciprocal Radio Wave Propagation *By H. Akiwa* 125

NOTICE 129

Physical State of Outer Atmosphere and the Origin of Radiation Belts. *By T. Olayashi*
(Reprinted from J. Geomagnetism and Geoelectricity, Vol. XI, No. 3, 1960.)