

JOURNAL  
OF THE  
RADIO RESEARCH LABORATORIES

APRIL, 1955

CONTENTS

I. A Method of Discriminating Disturbances in VHF Solar Noise Observation . . . . .	By K. Kawakami, T. Takahashi and M. Onoue	111
II. On the Influence of Electron-Ion Diffusion on the Electron Density and Height of the Nocturnal F2 Layer . . . . .	By T. Yonezawa	125
III. Characteristics of F2 Layer Multiple Reflections (10-16 Times) . . . . .	By Y. Echizenya, S. Katano and Y. Ogata	137
IV. Three Components of the Field Strength of the Wave Reflected from the Surface of the Ionosphere, their Level and Time Variation . . . . .	By H. Uyeda, Y. Ogata, K. Uchikura, Y. Arima and H. Obayashi	143
V. Experimental Studies on Diffracted Waves from a Mountain at 3000 Mc/s . . . . .	By T. Kono, K. Nishikori, M. Fukushima, M. Ikeda and N. Yoshida	163
VI. On the Relationship between the Hourly Variation of Field Strength and the Structure of the Lower Atmosphere . . . . .	By K. Tao	181
VII. Relationship between Eccentricities and Voltage Correction Factors for Concentric Slotted Lines . . . . .	By Y. Kita	193
VIII. A Frequency-Selective Amplifier at Sub-Audio Frequency . . . . .	By T. Ichida	201
IX. Special Instrument for Observation and Analysis of VHF Fading . . . . .	By K. Hirao and H. Maruyama	207
<b>Annex</b>		
The Effect of the Solar Tides and the Temperature Change on the Daily Variation in Electron Density and Height of the F2-Layer (Reprinted from J. Geomagn. Geoelect., Vol. VI, No. 2, June, 1954, pp. 68-82) . . . . .	By T. Shimazaki	