JOURNAL OF THE

COMMUNICATIONS RESEARCH LABORATORY

JULY 1989

CONTENTS

I.	Radio Noise Intensity at Guard Bands for HF Standard Waves in the Topside Ionosphere Measured by ISS-b	
	By M. Iwama, K. Marubashi, and C. Katoh	55
II.	An Approximate Method for Solving the Radiative Transfer Equation for Polarized Light in Discrete Random Media I. Circular Polarization II. Linear Polarization	
	By S. Ito and T. Oguchi	69
III.	A Highly Stable Crystal Oscillator Applied to Geodetic VLBI By H. Kiuchi, J. Amagai, and N. Kawaguchi	107
IV.	Real-time Relative Motion Monitoring for Co-located Geostationary Satellites By S. Kawase	125

COMMUNICATIONS RESEARCH LABORATORY
MINISTRY OF POSTS AND TELECOMMUNICATIONS