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Particle Measurements"; "3.11 References"; "4. Atmospheric Gravity Waves in Outline"; "4.1 General Nature"; "4.2 Governing Equations for the Elementary Case"; "4.3 Elementary Plane-Wave Solutions"; "4.4 Complications of Nonlinearity"; "4.5 Complications of Instabilities"; "4.6 Complications of Molecular Dissipation"; "4.7 Complications of Temperature Structure"; "4.8 Complications of Wind Structure"; "4.9 Complications of Earth Curvature and Rotation; Tides"; "4.10 The Semidiurnal Tide"; "4.11 The Diurnal Tide"; "4.12 Bibliography"; "5. Noctilucent Clouds a€? Their Characteristics and Interpretation"; "5.1 Introduction"; "5.2 The Height"; "5.3 Latitudes of Observation"; "5.4 Seasonal Distribution"; "5.5 Spatial Extent"; "5.6 Duration"; "5.7 Drift Motion"; "5.8 Wave Structure"; "5.9 Thickness and Vertical Wave Amplitude"; "5.10 Diurnal Variation"; "5.11 Auroral Influence"; "5.12 Year to Year Variation"; "5.13 Particle Size and Number Density"; "5.14 Theory"; "5.15 References"; "6. Noctilucent Cloud Wave Structure"; "6.1 Introduction"; "6.2 The Wave Observations"; "6.3 Theoretical Speculations"; "6.4 Suggestions for Further Studies"; "6.5 References"; "7. Meteor Trail Radar Winds over Europe"; "7.1 Introduction"; "7.2 Description of the Equipment"; "7.3 Calibration and Errors"; "7.4 Hourly Rate of the Obtained Data-Comparison with Other Experiments"; "7.5 Data Processing"; "7.6 Experimental Results"; "7.7 Conclusions"; "7.8 References"; "8. Radio Meteor Winds in the Southern Hemisphere"; "8.1 Introduction"; "8.2 Observational Technique"; "8.3 Data Analysis"; "8.4 Prevailing Winds"; "8.5 Diurnal Variations"; "8.6 Semidiurnal Variations"; "8.7 Terdiurnal Variations"; "8.8 Wind Variability"; "8.9 Turbulence"; "8.10 References"; "9. Radar Observations of Meteor Winds above Illinois"; "9.1 Introduction"; "9.2 Considerations on Monostatic Versus Multistatic Radar Systems"
