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FOR VOLUME 21"; "CONTENTS"; "I. THERMAL PROCESSES AND THERMAL DESIGN"; "I.1 Thermal Analysis"; "Higher-Order Approximations for Lumped System Analysis of Evacuated Enclosures"; "Optical Measurements of the Radiation Configuration Factor"; "Optical Shape Factor Data Processing through Computer Graphics"; "An Experimental Technique for Measuring Local Solar Irradiation with a Model Spacecraft"; "An Approximate Analytic Solution of the Steady-State Thermal Design Problem of Space Radiators"; "I.2 Entry Heating: Convection, Radiation, and Ablation"; "Radiative Transport in Inviscid Nonadiabatic Stagnation-Region Shock Layers"; "Radiation Transfer through High-Temperature Shock Layers"; "Remote Sensing of Rarefied Gas Flows through a Fluorescence Technique"; "Thermodynamic Performance of Carbon in Hyperthermal Environments"; "A Rapid Technique for Estimating Ablative Heat Shield Weights from Plasma Jet Test Data"; "Surface Oxidation with Streamwise Variation of Wall Reactivity"; "Hypersonic, Diffusion-Controlled Oxidation of Tungsten"; "I.3 Rocket Exhaust Effects"; "Spectral Radiance of Model Rocket Exhaust Plumes at High Altitudes"; "Effects of the LM Descent Engine Exhaust on Lunar Surface Temperatures"; "I.4 Lunar and Planetary Vehicles Design"; "A Study of the Thermal Kill of Viable Organisms during Mars Atmospheric Entry"; "Prediction of the Martian Thermal Environment"; "Thermal Control Aspects of a Stationary Martian Surface Laboratory"; "Thermal Testing under Simulated Martian Environment"; "LM Passive Thermal Design and Test"; "II. THERMOPHYSICAL PROPERTIES FOR DESIGN"; "II. 1 Remote Measurements"; "Determination of Optical and Physical Properties of Artificial Satellites by Passive Ground-Based Photometry"; "Predicting Lunar Temperatures"; "Lunar Surface Thermal Characteristics during Eclipse from Surveyors III, V and after Sunset from Surveyor V"; "II.2 Thermal Radiation Properties"; "Emission, Total Internal Reflection, and Tunneling of Thermal Radiation in Metals"; "Measurements of Thermal Radiation of Solids at Liquid-Helium Temperatures"; "A Technique for the Measurement of Spectral Reflectances at Low Temperatures in the Infrared and Far Infrared"; "Development of Phase-Change Coatings"; "II.3 Joint Conductance"; "Simultaneous Radiation and Conduction between Rough Surfaces"; "Thermal Conductance of Two-Dimensional Constrictions"; "An Exact Solution for Thermal Conduction through a Two-Dimensional Eccentric Constriction"; "Effects of Transient Pressure Environments on Heat Transfer in One-Dimensional Composite Slabs with Contact Resistance"

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