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""F. Reflector Antenna Concepts for Very Large Baseline Interferometry and Land Mobile Communications""""G. Telescope Sunshade Support Structure""; ""III. L' Garde Inc.'s Inflatable Space Structures""; ""A. L' Garde Inc.'s Simulated Decoys""; ""B. Large Offset Reflector Structure""; ""C. Inflatable Antenna Experiment""; ""IV. ILC Dover's Inflatable Space Structures""; ""A. Large Solar-Array Structure""; ""V. Other Organizations with Inflatable Space Structures Technology Capability""; ""References""; ""Chapter 3. Mechanics of Membrane Structures""; ""Nomenclature""; ""I. Introduction""
""A. Definition and Unique Behavior of Membranes""""B. Tensor Analysis""; ""C. Coordinate Systems and Configurations""; ""II. Kinematics of Deformation""; ""A. Motion and Deformation""; ""B. Deformation Gradient, Stretch, and Polar Decomposition""; ""C. Strain Definitions""; ""D. Deformation and Strain Rate""; ""III. Stress and Balance Laws""; ""A. Concept of Stress""; ""B. Stress Definitions""; ""C. Mass Balance""; ""D. Momentum Balance""; ""E. Energy Balance""; ""F. Conjugate Stress and Strain""; ""IV. Constitutive Equations""; ""A. Introduction""; ""B. Thermomechanics""
""C. Thermomechanic Field Theory""""D. Constitutive Relations for Elastic Solids and Sheets""; ""E. Constitutive Laws for Viscoelastic Materials""; ""F. Bodnera€?Partoma€?Rubin Model""; ""G. Fabrics""; ""V. Approximations""; ""A. Approximations in the Era of Computational Mechanics""; ""B. Nonlinear Nature of Membrane Problems""; ""C. Approximations in the Context of the Governing Equations""; ""D. Example""; ""E. On Accuracy and Modeling""; ""VI. Analysis of Wrinkled Membranes""; ""A. Introduction""; ""B. Tension-Field Modeling via a Penalty Parameter Modified Constitutive Law""
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