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Mixtures; C. Rotational Dynamics of TEMPOL in Interstitial Water of Polycrystalline Ice; 1. Spin Probe Mobility Above 130K; 2. Dynamical Heterogeneities; 3. Temperature Dependence of the Spin Probe Reorientation; 4. Breakdown of the Debye-Stokes-Einstein Law; 5. Spin Probe Sensing of the Water Static Heterogeneities; 6. Missing Evidence of Additional Impurities in Interstitial Water

VI. SummaryReferences; Pressure-Driven Liquid-Liquid Transformations and Corresponding Bizarre Viscosity Behavior; I. Introduction; II. Methods; III. Results and Discussions; A. Se; B. AsS; C. As<sub>2</sub>S<sub>3</sub>; D. B<sub>2</sub>O<sub>3</sub>; IV. Conclusions; References; The Stability Limit and Other Open Questions on Water at Negative Pressure; I. Introduction; II. What is Negative Pressure?; III. The Phase Diagram of Water; IV. Experimental Methods to Generate Tension; A. Acoustic Cavitation; B. Metastable Vapor-Liquid Equilibrium; C. Berthelot Tube; D. Centrifuge Method; V. Limit(s) of Metastability

A. Comparison Between the Different MethodsB. Origin of the Discrepancy in the Limits of Metastability; C. Remaining Issues with Inclusions; D. Path-Dependent Nucleation; VI. Other Topics in the Study of Liquids Under Tension; A. Equation of State of Water at Negative Pressure; B. Other Properties of Liquid at Negative Pressure; VII. Perspectives; References; Water-Like Anomalies of Core-Softened Fluids: Dependence on the Trajectories in (PT) Space; I. Introduction; II. System and Methods; III. Results and Discussion; A. Diffusion Anomaly; B. Density Anomaly; C. Structural Anomaly

IV. Rosenfeld ScalingV. Conclusions; References; High-Frequency Dynamics of Liquids Through a Liquid-Liquid Transition: The Case of CS; I. Introduction; II. The Case of Liquid Cesium; III. The Experiment; IV. Results; V. Discussion; VI. Conclusions; References; The Liquid-Liquid Phase Transition, Anomalous Properties, and Glass Behavior of Polymorphic Liquids; I. Introduction; II. Polymorphic Liquids: Phase Diagram, Anomalous Properties, and Glass Behavior; A. Liquid-Liquid Phase Transition; B. Supercritical Region: Anomalous Properties; C. Glass Polymorphism

III. Computer Simulation Models of Polymorphic Liquids

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Sommario/riassunto

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