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Thermodynamic Foundations of the Earth System

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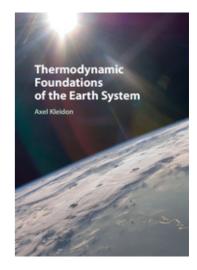
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Preface; List of symbols; 1. Thermodynamics and the Earth system; 2. Energy and entropy; 3. The first and second law of thermodynamics; 4. Thermodynamic limits; 5. Dynamics, structures, and maximization; 6. Radiation; 7. Motion; 8. Hydrologic cycling; 9. Geochemical cycling; 10. Land; 11. Human activity; 12. The thermodynamic Earth system; Glossary; References; Index.

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