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thermodynamics is an exciting and fascinating subject that deals with energy and energy interactions the module introduces the concepts of heat work efficiency and property diagrams of pure substance while discussing the 1st law of thermodynamics

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while the first law of thermodynamics is a well established principle underlying all models of earth s climate system applications of the second law in climate science are active areas of research this review summarizes how the relationships between earth s entropy export and internal entropy production provide insights into earth s

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