

Review of: "A Description of the Melting of Ice With the Modified Clapeyron–Clausius Equation"

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Potential competing interests: No potential competing interests to declare.

The paper primarily discusses previously proposed equations from existing literature. There seems to be a lack of original research or novel insights presented in the paper. It primarily summarizes existing knowledge without contributing substantially to the field.

While the paper attempts to present equations and results, the explanations are often convoluted and difficult to follow. Clear and concise presentation of ideas is crucial in scientific writing to ensure that readers can easily grasp the concepts being discussed.

Some of the equations and results presented in the paper lack proper justification or validation. It's essential to provide detailed explanations and evidence to support any claims or conclusions made in a scientific paper. Without proper rigor, the credibility of the findings is questionable.

The paper mentions conflicting findings regarding the thermal expansion coefficients and compressibilities of ice and water from different sources. It's important to address these inconsistencies and provide a coherent explanation or reconciliation of the discrepancies. Without resolving such issues, the conclusions drawn in the paper may be unreliable.

The paper focuses primarily on the specific case of ice-water phase transitions and the associated equations. However, it lacks broader implications or discussions about the potential applications of the proposed equations or the relevance of the findings to other areas of research. Expanding the scope and relevance of the paper could enhance its overall impact and significance.

Overall, while the paper addresses a problem related to phase transitions and thermodynamic equations, it falls short in several key aspects such as novelty, clarity, rigor, and scope. Therefore, based on these shortcomings, it may not be suitable for publication.