



SDI Review Form 1.6

Journal Name:	Physical Science International Journal
Manuscript Number:	Ms_PSIJ_33660
Title of the Manuscript:	Maxwell Relations for Substances with Negative Thermal Expansion and Negative Compressibility
Type of the Article	Short Research Article

General guideline for Peer Review process:

This journal's peer review policy states that **NO** manuscript should be rejected only on the basis of '**lack of Novelty**', provided the manuscript is scientifically robust and technically sound.

To know the complete guideline for Peer Review process, reviewers are requested to visit this link:

(<http://www.sciencedomain.org/page.php?id=sdi-general-editorial-policy#Peer-Review-Guideline>)



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PART 1: Review Comments

	Reviewer's comment	Author's comment (if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
<u>Compulsory</u> REVISION comments	The manuscript considered negative thermal expansion of substances and the changes of Maxwell relations and Universal Maxwell relations have been derived. According to the abstract The results obtained have been confirmed experimentally by a number of authors. Comments: The phenomenon is not new, it is known for two decades at least. The observation of change in Maxwell relations was considered by Kal Renganathan Sharma, "On Thermodynamic Analysis of Substances with Negative Coefficient of Thermal Expansion", Engineering, 2013, 5, 844-849 Published Online November 2013 (http://www.scirp.org/journal/eng) http://dx.doi.org/10.4236/eng.2013.511102 The abstract promised experimental verification, but in the text there were no detailed examples to demonstrate the usefulness of the derived equation. The manuscript should be classified review rather than research.	
<u>Minor</u> REVISION comments	Equations (4) and (5) when compared to equation (3) one observes that the heat change is disappeared, why? Are these adiabatic processes?	
<u>Optional/General</u> comments		

Reviewer Details:

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