SCIENCEDOMAIN *international*
www.sciencedomain.org

SDI Review Form 1.6

Journal Name:	**Physical Science International Journal**
Manuscript Number:	**Ms_PSIJ_23262**
Title of the Manuscript:	**On Thermodynamic Peculiarities of the Absorption Heat Transformers**
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)

SDI Review Form 1.6

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)*
Compulsory REVISION comments	The author(s) presented and described peculiarities of the models of absorption heat transformers (AHTs). There are no scientific errors/conflicts. However, the present form of the paper needs minor revision. The authors should address the following comments in the revised version. 1# Line 9, Abstract: Author stated that "In this paper we describe the peculiarities of the models of absorption heat transformers (AHTs) hampering their full matching to the second law of thermodynamics." *REPLY: The above quoted sentence did not actually reflect the novelty of this article. Author should modify this sentence such that it can fully reflect the contribution of this article to the body of knowledge.* 2# Line 9, Abstract: Author stated that "At that the specific quantity of work, minimum required in such a model, exceeds the actual value of this index in the cycles with the H2O/LiBr and NH3/LiNO3 solutions by several orders of magnitude." *REPLY: Author(s) should reconstruct this sentence. The meaning of this sentence cannot be easily fetched.* 3# Line 9, Abstract: Author stated that "The examination of another AHT model represented by new cycles for a concurrent generation of electric power and cold from the standpoint of the equilibrium (classical) thermodynamics	

	leads to new theoretical difficulties because such cycles do not correspond to the traditional version of the second law of thermodynamics." *REPLY: This is a compound complex sentence. It is not acceptable under abstract. Author(s) should split this into at least 2 simple sentences.* 4# Line 14 - 17, Introduction: It is worth noticing that the introduction section is not properly articulated. *REPLY : Author(s) should open introduction section by explaining the concept of thermodynamic as it is related to the absorption of heat transformers.* *Also, author(s) should combine all the sentences from Line 14 to Line 32 so that it can form one paragraph.* *In addition, authors should review the article below and use it to update the introduction:* *R. Best, W. Rivera, J. Hernandez, F. A. Holland, Thermodynamic design data for absorption heat transformers – Part 5. Operating on ammonia-sodium thiocyanate. Heat Recovery systems and CHP, Vol. 12, 1992, 347 – 356.* 5# Line 40 – Line 63 Author(s) should combine all the sentences to form a paragraph. 6# Line 74, Author(s) should mention where Eq. (1) was extracted from. 7# Line 128 – 137: Author(s) should first mention some contributions to the body of knowledge on ABSORPTION HEAT ENGINE (AHEs). 8# Line 218 - 240 Author(s) should break all the sentences to simple. 9# Line 218 - 240 Also, author(s) should further discuss the	

SDI Review Form 1.6

	thermodynamic peculiarities of the absorption heat transformers which this article presents. 10# Author(s) should remember to add *R. Best, W. Rivera, J. Hernandez, F. A. Holland, Thermodynamic design data for absorption heat transformers – Part 5. Operating on ammonia-sodium thiocyanate. Heat Recovery systems and CHP, Vol. 12, 1992, 347 – 356.* *To the reference list. Author(s) should try and study the article before using it to update this article.*	
Minor REVISION comments	NIL	
Optional/General comments	NIL	

Reviewer Details:

Name:	**Isaac L Animasaun**
Department, University & Country	**Department of Mathematical Sciences, Federal University of Technology, Ondo State, Nigeria**