



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 \underline{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 a gread with reviewer
	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
Comments DEVICION		should write his/her feedback here)
<u>Compulsory</u> 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	
ı	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	

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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:

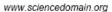
Author(s) should first mention some contributions to the body of knowledge on ABSORPTION HEAT ENGINE (AHEs).

8# Line 218 - 240

Author(s) should break all the sentences to simple.

9# Line 218 - 240

Also, author(s) should further discuss the





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	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.	
<u>Minor</u> 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

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