#### SCIENCEDOMAIN international

www.sciencedomain.org

## **SDI Review Form 1.6**

## PART 1:

Journal Name:	Physical Review & Research International
Manuscript Number:	2013_PRRI_5157
Title of the Manuscript:	Introducing Some Correlations to Calculate Entropy Generation in
_	Extended Surfaces with Uniform Cross Sectional Area
Type of the Article	Research paper

**General guideline for Peer Review process is available in this link:** 

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

• This form has total 7 parts. Kindly note that you should use all the parts of this review form.

## SCIENCEDOMAIN international

www.sciencedomain.org



# **SDI Review Form 1.6**

#### **PART 2:** 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
Compulsory_REVISION comments	In this paper the authors analyze irreversibilities in a pin fin by using a minimum entropy production criterion. The topic has been extensively covered by other researchers so its originality is not clear.  The paper is questionable for several reasons.  I think there is a misunderstanding in the interpretation of results. In row 191, referring Figure 2, authors say: "So, when the length is between 220 to 250 mm the function of entropy generation reaches to its optimal value". First, X in Figure 2 is position not length. The graph represents a spatial distribution. Second, the optimal value of the entropy generation should be a minimum. In any	





www.sciencedomain.org

## **SDI Review Form 1.6**

case, accordingly with Figure 2, there is a position in the pin from which the entropy production reaches a saturation value. In the same Figure, I do not understand the relevance of the spatial derivative of the entropy production.

Minor points.

It is not said how Figures 1 and 2 are obtained.

Bejan's research used to validate the results is unknown. His paper is not cited. Many of the equations are written without further explanation. Several terms remain unspecified.

The paper is written in poor English.

## SCIENCEDOMAIN international



www.sciencedomain.org

# **SDI Review Form 1.6**

Minor REVISION comments	
Optional/General comments	