

ABSTRACT

Motivation

...

Problem Statement

An experimental investigation was conducted to explore ...

The effect of is numerically investigated for Reynolds number range of ...

This article provides numerically study of the

In this study, was analyzed.

This article presents an exhaustive review of these studies and suggests a direction for future developments.

Approach

... is investigated by a numerical study.

Results

The results reveal that ...

Based on the results,

The calculation in this work suggest that

The results also show that ...

The results of the numerical simulation indicate that the

It was found that ...

Conclusion

..., and areas for future research are recommended.

Implications of the results and future research directions are also presented.

The results presented here may facilitate improvements in the ...

INTRODUCTION

Establishing the importance of the topic:

The topic of natural convection in enclosures is one of the most active areas in heat transfer research today ...

One of the most significant current discussions in nanotechnology is

The knowledge of the X in Y is important for an understanding of ...

The X has been investigated by many researchers using ...

In the recent decades, X has been one of the major interesting research subjects due to ...

In the past two decades, X spaces have been studied extensively.

Recent developments in X have heightened the need for

In recent years, there has been an increasing interest in

Recent developments in the field of X have led to a renewed interest in

Recently, researchers have shown an increased interest in

The past decade has seen the rapid development of X in many

The past thirty years have seen increasingly rapid advances in the field of

Over the past century there has been a dramatic increase in

In the past years, the X has attracted much attention as a ...

The primary goal of turbine cooling research during the past years was to develop

Film cooling on turbine components has been studied since the 1970's, and...

X has been studied over the latest few decades because ...

General descriptions of the relevant literature:

Researchers have studied the effect of ...

Previous studies have primarily concentrated on ...

There have been several studies in the literature reporting

A considerable amount of literature has been published on X. These studies

There is a large volume of published studies describing

The first serious discussions and analyses of X emerged during the 1980s with

During the past 30 years much more information has become available on

In recent years, there has been an increasing amount of literature on

A large and growing body of literature has investigated

In recent years, several studies have focused on ...

General reference to previous research

Many researchers have argued that [1-3].

There is a consensus among social scientists that[1-3].

Numerous studies have attempted to explain [1-3]

Recent evidence suggests that [1-3]

Several attempts have been made to [1-3]

Several studies have revealed that [1-3]

Several studies investigating X have been carried out on[1-3]

Previous studies have reported [1-3].

Previous research findings into X have been inconsistent and contradictory [1-3]

A number of studies have found that [1-3].

A number of study analyses have examined the relationship between [1-3]

The relationship between X and Y has been widely investigated [1-3]

The causes of X have been widely investigated [1-3].

It has been suggested that [1-3]

It has conclusively been shown that [1-3]

Previous research has shown that..... [2]

Studies have found that [1-3].

More recent studies have confirmed that [1-3]

Time frame references

In 1975, Author et al. published a paper in which they described[4]

In 1990 Author et al. demonstrated that [4]

Thirty years later, Author reported that [4]

In the 1970s Author pointed that [4]

In 1981, Author and co workers demonstrated that.... [4]

In 1990, Author et al. reported.... [4]

In 1984 Author et al. Concluded that [4]

Author as subject

Author identifies

Author lists three possibilities....

Author traces the development of

Author provides in-depth analysis of the work of

Author highlights the need to....

Author discusses the challenges and strategies for

Author mentions the significant relationship between

Author questions whether

Author argued that/the

Author carried out numerical study of

Author describes

Author discovered

Author found that

Author has demonstrated that

Author have proposed

Author indicated that

Author investigated on....

Author investigated the

Author measured the

Author noted that

Author observed that

Author posited that

Author proposed

Author raised several concerns about They suggested that....

Author reported that/the

Author researched the

Author showed

Author studied

Author suggested that
Author summarized that
Author presented
Author extended this work to
Author presented a comprehensive review of
Author performed experimental investigations on ...
Author performed numerical analysis of ...
Author analyzed
Author studied the ... Their analysis revealed that
Author reviewed the available literature on ...

Research topic as subject

..., such as the works of Author et al.
were carried out by Author.
was done by Author
were investigated by Author.
was attempted by Author
... is analyzed by Author

Others

For example, Author found that....
Recently, Author gave a comprehensive review on
In a different study, Author examined....
In another study, Author examined
Another studies by Author....
According to Author....
According to an investigation by Author,
The study by Author examined the
A study by Author suggests there should be ...
As highlighted by Author,
According to Author,

Study by Author found that

.... model was used by Author to do research on

.... model was used by Author to predict

The study of Author was the

With the same objective, Author conducted numerical experiments on

More recently, Author investigated

Early studies by Author

Highlighting contradict findings

However, a number of studies show that significant differences do exist, albeit findings are somewhat contradictory.

Author found differences suggesting that....

In contrast, Author concluded that

In contrast, the study by Author indicated that

The above findings contradict the study by Author. Author examined...

However, interestingly, this is contrary to a study conducted by Author.

Despite prior evidence [2],....

These results were contradicted by the experiments of Author who considered

However, it was later shown by Author that

Highlighting similar findings

The research study by Author also found

Author also found that

Furthermore, Author concluded that

Furthermore, Author showed that

In addition, according to Author ...

In addition, Author showed that ...

The finding is consistent with findings of past studies by Author, which

The above finding is consistent with the study by Author. Author examined...

Research finding by Author also points towards..

...is consistent with literature [4].

Similarly, Author found ...
Author added that the
This is supported by Author study which reveal that
Author also provided ...
.... and found similar results to those obtained by Author.
In addition to work of Author A, Author B provides ...
..... by Author also showed similar results.
This is consistent with the of Author, which showed that

Highlighting a knowledge gap in the field of study

However, to the best of authors knowledge, no report has been found so far using
As far we know, the problem has not been considered before.
Although X have been widely used on the X, there has been limited use on
Literature reviews have indicated that there were no
So far, however, there has been little discussion about
However, far too little attention has been paid to

Most studies in X have only been carried out in a small number of areas.
The research to date has tended to focus on X rather than Y.
In addition, no research has been found that surveyed
So far this method has only been applied to
However, there have been no controlled studies which compare differences in
The experimental data are rather controversial, and there is no general agreement about
However, there is no reliable evidence that
As shown above, most studies examined
On the other hand, no study has examined....
Yet, very few studies have examined...

There are a quite few research studies on X. However, studies on X are rare to find in
literature.
Unfortunately few studies have been carried out on....
Studies relating to X have been relatively scanty (few) and that there is no study focusing
on....

There is also a little research about X. Realizing the gap in the extant literature, more research is needed forTo our knowledge, no research has been carried out on To address these gaps....

It appears from the aforementioned investigations that numerous investigations have been conducted the effects of ... However, no attempt was made to investigate ...

Although there were many researches about ..., few of them focused on So it is necessary to do deep research on

However, there is no study present

There are only a few studies in literature that deal with

It appears from the aforementioned investigations that most attention has been paid to

Furthermore, it can be seen from the limited works on

No attempt was done to explore the potential of

Most of the open literatures on thewere focused mainly on theIn addition to these primary data, systematic studies on theare still needed for better understanding of ...

A careful study of the literature reveals that thehas not been thoroughly investigated. A clear understanding ofis very essential for ...

It may however be noted that most of the studies were aimed at and a rigorous study forhas not been attempted to.

Onone unresolved question is why

Nevertheless, few studies are to be found providing detailed

Most previous studies have, however, it is essential to provide

However, are still lacking.

There have been relatively few recent studies on

It should be noted from the above literature review, however, that limited studies are available on..... and this has motivated the present study.

It should be noted, however, that all the previous studies ofthat are reported in the open literature To the best of author knowledge, the case of has not been given great attention by the researchers in the past and this motivated the present study.

Although the above investigation examined the, to the best of author knowledge, only few reference in the literature systematically describe the effect of. This was the motivation behind the present study.

In general, as observed from prior studies, it is difficult to obtain performance enhancement Therefore, another motivation for this study is to ...

In summary, many interesting results indicating the potential of have been reported.

However most of the studies in the open literature did not simultaneously examine the effect of ...

To the author best knowledge, previous studies on ... only focussed on

Although these investigations reported many interesting results, little work has examined

In particular, the effect ofremains unexplored.

A survey of literature on is scarcely reported.

Focus, Aim, Objective:

The objective of the present work paper is to investigate ...

In this work we propose a simulation which uses ...

The objective of this study is to develop ...

This paper will focus on/examine/give an account of

The objectives of this paper are to determine whether

This paper seeks to address the following questions:

This paper critically examines/discusses/traces

The aim of this paper is to determine/examine

The aim of this study was to evaluate and validate

The present study examined numerically the

This study was spawned from the lack of research of

The objective of this paper is to numerically study

Therefore, this study aims to experimentally investigate the

Therefore, the present study carried out the

The primary goal of this study was to determine the

The current study involves an investigation of the effects of

Accordingly, the present study attempts to...

The aim of the present work is to investigate the effects ofThe paper also explores ...

The current study attempts to cover a wide variety of.....

The goal of this study is develop a more rigorous understanding of ...

The present study considers

The present study explores the influence of ...

The present study focuses on ...

The present work is an extension of the work reported earlier by Author with emphases on ..

The purpose of this article is to.....

The purpose of this study is to determine....

The purpose of this study was to

Therefore, the intention of the present study is to

This paper researched the

This study contributes to the extant literature in several ways. First ...

This study tested the hypothesis that ...

This study was undertaken to ...

This paper attempts to provide a more detailed investigations regarding the effects of ...

While the objective of the present investigation focus onthe long term implications of this study will impact....

In this study,has been investigated .

The present work compares

This paper continues the effort of Author to understand the

The purpose of this research was

In this paper, is proposed.

Thus, the present study deals with ...

Hence the goal of this paper is to find out if there exist a possibility for improving the heat transfer usingwhich was not favored in prior attempts by

The main aim of the present study is to investigate ...

This work presents ...

The present study is motivated by the need to take into consideration the ...

The purpose of this paper is to review recent research into the

This paper will review the research conducted on

This paper reviews the literature concerning the usefulness of using

Significant of the study

To accomplish this aim and to respond to a recent call for research to...

The findings of this study will help.....

The contribution of this study is obvious as the resulting outcomes can be capitalized as guidelines to

The current study contributes to our knowledge by addressing four important issues. First,

The long term implications of this study will impact ...

The uniqueness of this study exists in the fact that ...

To demonstrate the potential of this approach and its suitability for the application,is investigated.

RESULTS AND DISCUSSION

Discussion of Results

The discussion of the results begin with ...

This finding highlights...

The finding of the present study suggest that

The findings suggest that

The finding provides evidence that ...

This study indicates that ...

The results of the present study also suggest that..

The present findings also suggest that ...

Our finding revealed that ...

Among the plausible explanations for these findings is that

The most striking result to emerge from the data is that

Interestingly, this correlation is related to

The correlation between X and Y is interesting because

The more surprising correlation is with the

The single most striking observation to emerge from the data comparison was

Comparisons of Results with previous findings

The present finding also support Author study which concluded that

The finding is consistent with findings of past studies by Author, which....

Consistent with findings by Author, we found that ...

The result is in the lines of earlier literature [5] that found...

.....which was consistent with the finding of Author.

This ... reflects the findings of Author.

Author found that, which is in good agreement with the results of the present study.

...from the present study agrees relatively well with that from Author.

Highlighting significant data in a table/chart

It is apparent from this table that very few

This table is quite revealing in several ways. First, unlike the other tables

Data from this table can be compared with the data in Table 4.6 which shows

From the data in Figure 9, it is apparent that

From this data we can see that

The histogram in Fig 1. indicates that

What is interesting in this data is that

In Fig.10 there is a clear trend of decreasing

As Table III shows, there is a significant difference between the two groups.

The differences between X and Y are highlighted in Table 4.

Discussion data from table/figure

Table A presents ...

Figure 1 presents ...

In table 2, ...

Table 2, however, shows that.....(unexpected results).

Table 2 demonstrates that....

Table 2 indicates that ...

Table 2 shows that

Figure A shows

Figure A and B show

Figure 1 is the ...

Table 1 provides ..

Figure A illustrates ...

Figure A exhibits ...

As illustrated in table 2, ...

As shown in table 2, ...

It appears from table 1 that, ...

As table 1 indicates, ...

In the Figure A,...

From the Figure A,...

... plotted in Figure 1 clearly show ..

...are illustrated in Figure 1.

..... are shown in table 2.

..... are presented in Table 2.

Theare presented in figure 1. As shown in the figure ...

..... depicted in figure 1.

, Figure A.

....is shown in Table 1.

... is shown in Figure A.

... are showed in Table 1.

; see figure A.

, visible in Figure A.

.... Is given in Table 1.

CONCLUSION

Restatement of aims

This study set out to determine

The present study was designed to determine the effect of

In this investigation, the aim was to assess

The purpose of the current study was to determine

This project was undertaken to design and evaluate

... are investigated

This paper presented results of ...

Summarising the findings

This study has shown that

These findings suggest that in general

One of the more significant findings to emerge from this study is that

It was also shown that....

This study has found that generally

The following conclusions can be drawn from the present study

The relevance of X is clearly supported by the current findings.

This study/research has shown that

The second major finding was that

The results of this investigation show that

The most obvious finding to emerge from this study is that

The following points emerged from the present investigation: 1..... 2.....

...,

The main finding can be summarized as follow: 1..2..

The following conclusions can be made: 1..2...

Important conclusions drawn from this work include: 1...2...

The following conclusions were obtained. 1)....2)..

Analysis of the computed results show the following: 1).....2)...

In summary, the current study unveils just the tip of iceberg of

The following is a summary of conclusions. 1...2)...

Some important observations are noted and summarized below.

....

Significance of the findings

The evidence from this study suggests that

The results of this study indicate that

The findings of this study suggest that

The X that we have identified therefore assists in our understanding of the role of

These findings enhance our understanding of

This research will serve as a base for future studies and

The current findings add substantially to our understanding of

The current findings add to a growing body of literature on

The study has gone some way towards enhancing our understanding of

The present study, however, makes several noteworthy contributions to

The findings from this study make several contributions to the current literature. First,...

Recommendations for further work

This research has thrown up many questions in need of further investigation. Further work
needs to be done to establish whether

It is recommended that further research be undertaken in the following areas: Further
experimental investigations are needed to estimate

What is now needed is a study involving

More broadly, research is also needed to determine

Further research might explore/investigate

Further research in this field/regarding the role of X would be of great help in

Further investigation and experimentation into X is strongly recommended. A number of
possible future studies using the same experimental set up are apparent. It would be
interesting to assess the effects of

More information on X would help us to establish a greater degree of accuracy on this matter.

If the debate is to be moved forward, a better understanding of needs to be
developed.

These findings provide the following insights for future research:

Considerably more work will need to be done to determine

More research is needed to better understand when implementation ends and

A further study could assess

A future study investigating X would be very interesting.

Future research should therefore concentrate on the investigation of

More research is required on