

Phrases and Sentences for Academic & Research Paper Writing

عبارات ومفردات أكاديمية وبحثية شائعة في الأبحاث والرسائل العلمية باللغة الإنجليزية

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This is a general resource for academic writers, students and researchers. You will find very useful examples of some of the most common academic phrases and sentences. These academic phrases and sentences are organised according to the main sections of a research paper or thesis/dissertation. The main sections that this file covers are the following:

- 1- Introduction
- 2- Literature Review
- 3- Materials & Methods
- 4- Results & Discussion
- 5- Conclusion & Future Work
- 6- Acknowledgements & Appendix

Please note that each main section has a number of subsections that cover various parts of the main section.

1. Introduction

General introduction:

Research on __ has a long tradition __
For decades, one of the most popular ideas in __ literature is the idea that __
Recent theoretical developments have revealed that __
A common strategy used to study __ is to __
This research constitutes a relatively new area which has emerged from __
These approaches have been influential in the field because of __
In the past several decades, __ have played an important role in __
There are growing appeals for __
This is the field of study that deals with __
Most of the theories of __ are however focused on explaining __
There are three major theoretical and conceptual frameworks for __
The field has gradually broadened as __
This field of study is sometimes referred as __
This has been widely adopted in the field of __
This thesis considers the field of __ as the main subject of its study
One of the major topics to be investigated in this field is __
This is now a mature field which is now being spun out into commercial applications __

This field is maturing, with a wealth of well-understood methods and algorithms __
This field closely follows the paradigm of __
The field has met with great success in many problems __
The field only really took off in the late __ as it became more accessible to __
This is not particularly new and has been used for many years in the field of __
This field closely follows the paradigm of __
Widely considered to be a good way to __
This has been widely adopted in the field of __
This is more widely used at the time of __
This phenomenon has been widely observed
A common technique is to __
This is a technique common in __
There are several common kinds of __

Problem definition:

This seems to be a common problem in __
This leads to myriad problems in __
The main problem is that __
There is a further problem with __
One primary problem with __ is that __
The methods are not without their problems as will be discussed in __
The foremost problems are the facts that __
This makes up for the problem of __
This seems to be a common problem in __
This is a complex problem and to simplify it requires __
A challenging problem which arises in this domain is __
These problems are difficult to handle __
This is typically a complex problem __
A well-known problem with __ is that it does not take into account the __
One of the problems is that it considers only the __
The key problem with this technique is __
It is usually an ill-posed problem in the case of __
This problem is well-posed and does not require to impose __
This appears as a more straightforward problem compared to the __
This turns out to be even more problematic because __
The problem with such an implementation is that __
This poses some problems when carrying out the __
This problem has attracted more attention in the field of __
This is a basic chicken-and-egg problem because __
Unfortunately, this approach results in problems related to __
These constraints make the problem difficult to __
Most of the research in this field is aimed at solving this problem.
This remains an open problem in the area.
This problem has received substantial interest.
These examples highlight the problem that __
The main practical problem that confronts us is __

Gaps in literature:

There is no previous research using ___ approach.
As far as we know, no previous research has investigated ___
There has been less previous evidence for ___
Other studies have failed to ___
To our knowledge, no study has yielded ___
No study to date has examined ___
Only a few studies have shown ___
However, ___ has rarely been studied directly.
Moreover, few studies have focussed on ___
In particular no study, to our knowledge, has considered ___

Problems solution:

One way to overcome these problems is to ___
There are many alternative methods are available for solving these problems.
In order to rectify the problem of ___
A solution to this problem is proposed in ___
One approach to solve this problem involves the use of ___
An alternative approach to the problem is ___
This can be applied to solve these problems.
A number of works have shown that this problem can be overcome by using ___
A large number of alternative approaches have been developed over the last few decades to ++
To overcome this problem, in the next section we demonstrate ___
One way to overcome this problem is to ___
To overcome this problem, some approaches have been made ___
One way of recovering from this problem could be to ___
This has been proposed to surmount the problems caused by ___
A different approach to the traditional problem is given in ___
A whole range of different approaches to the problem are available.
These techniques have potential to solve contemporary problems in ___
We should tailor specific solutions to specific problems ___
The standard solution to the problem is based on ___
The solution proposed here addresses only the problem of ___
There are techniques that have been developed to solve this problem ___
This problem is usually overcome by ___
There have been several attempts to solve the problem ___
There exist many methods for dealing with this problem ___
Broadly speaking, the problem can be addressed by ___
One of the simplest ways of tackling this problem is ___
This problem has been largely studied and many viable solutions have been found.
In general, this problem can be tackled in two different ways.
Other approaches have been shown to cope with the problem more efficiently.
We will review the main approaches to solve this problem.
Recently, a more general solution has been proposed for this problem.
Both these works provide a solution to the problem.
Recent methods focus on overcoming the problems by proposing different schemes for ___
This strategy is not uncommon in this kind of problems.
We can apply our algorithm to solve this difficult problem.
This is how the problem can be tackled ___

We have developed this generic method to solve a variety of problems.
We will now demonstrate our method on some specific problems.
Here we solve several problems simultaneously.
We have undergone a rethinking of the problem by ___
A possible solution to the problem at hand is ___
It is clear that the problem could be easily tackled by ___

Study motivation:

It is of interest to know whether ___ still hold true.
It would be of special interest to ___
We therefore analyzed ___ and investigated whether ___
For this study, it was of interest to investigate ___
We investigated whether ___ can be partly explained by ___
To examine the impact of ___, we tested ___
We have investigated the effect of ___
We characterize different aspects of ___
One way to investigate ___ was to ___
A new approach is therefore needed for ___
To illuminate this uncharted area, we examined ___

Aims & objectives:

The aim is to develop more sophisticated methods for ___
The aim of this work is to develop ___
The aims in this chapter are twofold: First ___, Second ___
For our first goal, we focus on two problems ___
The aim here is to investigate ___
The overall goal of this work was to ___
This project aims to develop an overarching framework to ___
The aim of the experiment is to compare ___
The ultimate goal is to produce a ___
The overall goal of this thesis was to pursue ___
After defining the problem we explain the goals of the thesis.
With this aim in mind, in this paper we present a new method for ___
Our research aims at finding a solution for this challenging problem of ___
There is no overall goal, apart from ___
We examine some previous work and propose a new method for ___
There are too many simultaneous goals making it difficult to ___
One of the major aims of this work was to create ___
The main objective is to investigate methods for improving ___
The objectives can be restated in the light of ___
The objective is to devise and implement a system for ___
The objectives were partially met by developing a method to ___
The objective is to demonstrate the feasibility of ___
One of the objectives is to improve the ___

Significance and advantages of your work:

This thesis documents several key contributions made to the fields of __
This thesis has made a number of significant contributions to the field of __
The contributions made here have wide applicability.
The contributions made should be of wide interest.
The first main contribution proposed in this field is a __
The contributions of this work are presented as follows: __
The main achievements, including contributions to the field can be summarised as follows: __
We summarize the main contributions of this thesis.
The key contribution of this work is the solution it provides __
It has numerous advantages as explained here __
It has significant benefits in terms of __
There is a clear advantage in following the methods of __
This has particular advantages over other __
All of these advantages make it particularly valuable in __
One of the primary benefits of this algorithm is __
This gives a significant advantage because __
These point out the advantages and practicability of __
One of the key benefits of the algorithm is __
The main advantage compared to previous method is __
This present some practical advantages.
The main advantage is the simplified pattern.
One practical advantage of the method is that it can be used in __
The advantage becomes all the more significant when __
In comparison with other techniques, this method has the advantage of __
The most important advantage of this method is that it can perform very well in __
It yielded significant speed advantages when __
The benefit of using the __ is expected to __
The main advantage is that we are able to __
To give some idea of the benefits of this method __
The additional advantage of using this method is that it results in __
This is an important advantage of this algorithm __
These are the main advantages of this method.

2. Literature Review

Previous literature:

The literature review shows that __
Previous research showed __
Seminal contributions have been made by __
A series of recent studies has indicated that __
Several theories have been proposed to __, some focusing on __, others on __
There has been numerous studies to investigate __
This has been used in several studies to assess __
Previous studies have shown __
Several studies suggest that __
This has also been explored in prior studies by __
Prior research suggests that __
Previous studies have emphasized __

The majority of prior research has applied __
Most early studies as well as current work focus on __
For instance, the following studies were conducted on __
Studies of __ are well documented, it is also well acknowledged that __
A number of authors have recognized __
Some authors have also suggested that __
Some authors have driven the further development of __
This has been discussed by a great number of authors in literature.
For example, research has provided evidence for __
The authors bring some information about the background of the problem, __
As has been previously reported in the literature, __
A large number of existing studies in the broader literature have examined __
The literature review shows that __
There exists a considerable body of literature on __
In short, the literature pertaining to __ strongly suggests that __
Over time, an extensive literature has developed on __
This section presents a review of recent literature on __
This paper begins with a short review of the literature regarding the __
Several methods are reported in the literature to address this issue.
There is a wide choice of __ available in the literature.
This section reviews the literature related to __
It was reported in literature that __
A recent study by __ concluded that __
In the light of reported __ it is conceivable that __
The method introduced by __ has the advantage that __
One method employed by __ is __
A more comprehensive description can be found in __
For example, recent research suggests that __
This was successfully established as described by __
The author employed a __ methodology which prescribes the use of __

Limitations of previous research:

A number of questions regarding __ remain to be addressed.
A closer look to the literature on __, however, reveals a number of gaps and shortcomings.
This question has previously never been addressed because
Most studies have relied on __
Previous studies by __ cannot be considered as conclusive because __
Previous studies have almost exclusively focused on __
This has been previously assessed only to a very limited extent because __
In the present studies __ were constrained to __
In previous studies were limited to __
Although results appear consistent with prior research, they appear inconsistent with __
These are previously unstudied because __
As far as we know, no previous research has investigated __
Moreover, although research has illuminated __ no study to date has examined __
Despite decades of research, this continues to be debated among __
This section points out some of the problems encountered in the extant research.
Although there are many studies, the research in __ remains limited.

However, the existing research has many problems in representing __
The literature on __ is less consistent
Historically, there has been a great deal of confusion in the literature regarding __
This approach remains briefly addressed in the literature.
These are rarely analyzed in the literature as __
There are key questions and notions that are still not discussed in the literature __
This is not clearly presented in the literature because __
This paper addresses the need for __, so far lacking in the scientific literature.
To fill this literature gap, this paper identifies __
Only a few works in literature demonstrate __
Although studies have been conducted by many authors, this problem is still insufficiently explored.
To our knowledge, no prior studies have examined __
However, the existing research has many problems in __
Therefore, important issue in the literature is __
However, we argue that previous literature suffers from certain weaknesses: __
Previous research can only be considered a first step towards a more profound understanding of __
The previous studies reveal that __ are usually the most problematic to __

Research questions:

More specific research questions will be introduced and investigated in __
A further question is whether __
Finally, another promising line of research would be __
The study addresses several further questions on __
Some of the interesting questions in this context are __
In order to address the questions outlined above, we report here __
These questions are of central interest as much recent research in __
Furthermore, __ is arguably an important question to be addressed.
The question now is how __ can be used to explain __
Study addresses the research question __
In order to properly address this question, we __
An important question associated with __ is __
A critical open question is whether __
A still unsolved question is whether __
This remains an open question as __
This question has previously never been addressed because __
This study offers a test of __ research question
Study addresses the research question __
Even in general __ research strategies is needed to explain __
The researcher should be interested here in __
Many questions remain unanswered __
There are some potentially open questions about the validity of __
The question that then naturally arises is __
The question then becomes how best to define __
This was an important question to study as __

Research to be explored:

A more systematic and theoretical analysis is required for __
As the authors note earlier, more work is necessary to __

Additional studies to understand more completely the key tenets of ___ are required.
The unexpected findings signal the need for additional studies to understand more about ___
This paper addresses ___, so far lacking in the scientific literature.
A new approach is therefore needed for ___
One of the tough challenges for all researchers in this domain is ___

3. Materials & Methods

Experimental setup:

This experimental design was employed because ___
In the course of the experiment, ___ played an important role.
The experiments were performed with ___
This was experimentally investigated by ___
Most experiments have been carried out with ___
The main focus of the experiments was to calculate ___
Prior to each experiment ___
The experiments are completely based on ___
In our preliminary experiments we estimated that ___
In this experiment, we introduced a ___
Methods were based on previous experiments ___
This proceeds in two stages: ___
After a series of experiments it was found that ___
Therefore, in this experiment we define goals as ___
In this experiment, we introduced a ___
We consider the setup generic, however, ___
This was designed to acquire approximately ___
These were designed in such a way that ___
This experimental design was employed because ___
This was specifically designed for ___
This was designed to acquire approximately ___

Data collection:

There were ___ participants in this sample.
Participants first provided informed consent about ___
We performed additional data collection with ___
For this study, we analyzed the data collected from ___
The data are less clear-cut than ___
Data were collected and maintained by ___
For this purpose, we employ survey data collected from ___
The application employs data obtained from ___
The analyzed data included: ___
The procedures of handling the data followed the suggestions of ___
Subsequently, ___ were then used to elicit further data.
The experimental data on ___ is very scarce.
The data in this work consists of ___
Survey data were collected from ___
This study used different data collection methods such as ___
The quality can be enhanced by providing additional data for ___

Such data are prone to ___
We utilize secondary data from ___
The data was divided into ___
Participants in the first data collection were ___
The sample was heterogeneous with respect to ___
The sample size in this study was not considered large enough for ___
We cannot deny the presence of some sample selection biases because ___
The sample of respondents included ___
The researchers pooled samples to ___
The sample strategy was the same as for ___

Data analysis:

However, there are trends in our data to suggest that ___
The trend values were then subjected to ___
We analysed data as a function of ___
We used an established technique, namely ___, to analyse ___
This showed a judgement error of ___
To investigate this statistically, we calculated ___
A ___ test was used to determine the significance of data
Our data show that there is ___
Our data suggest that ___ which may be based partly on ___
Data also revealed a significant ___
Our data also address the ___
Data were analyzed and correlated with ___
The data are presented in Table ___
However, according to our data ___
We undertake the empirical analysis using data collected in ___
The data is analyzed from different points of view such as ___
The data reveals significant differences in ___
Thus, the data supports the premise that ___
Results provides a good fit to the data ___
We compared the results with the original data in ways ___
The evaluation of the data is shown in ___
We explicitly accounted for ___
Missing values were replaced using ___
This analysis was confined to ___
The evaluation of the data presented in this work leads to ___

Statistical testing:

We explored these effects statistically by ___
Statistical analyses was performed by using the ___ applying a significance level of ___
The results were statistically significant when compared using ___
This was normally distributed throughout the study population.
This distribution resulted in ___
Significant differences in the ___ remained.
This was the only parameter that had a statistically significant correlation with ___
We used ___ statistics to report ___
This had a statistically significant impact on ___

The correlation between ___ and ___ is positive and statistically significant at ___
We calculate ___ statistic to test the null hypothesis that ___
As shown in Table ___ are statistically significant at all levels.
We can clearly see that the estimated values are positive and statistically significant at ___
This revealed no statistical differences on ___
The test for ___ found no significant differences.
Our results show a statistically significant improvement in ___
All differences in performance were statistically significant in ___
The method achieves a statistically significant improvement compared to ___
In order to obtain statistically representative ___ it is required to ___
To investigate this statistically, we calculated ___
Descriptive statistics were calculated for all variables used in the study using ___
The significance testing was based on ___
All statistical analyses were performed using ___

Assumptions:

Such a potentially unrealistic assumption arises from the fact that ___
Based on these assumptions, hypotheses were developed: ___
Based on these assumptions, ___ have been treated as ___
This is based on assumptions that ___
These assumptions are generally accepted these days ___
The fundamental assumptions of the models are: ___
This assumption is supported by the fact that ___
Under certain assumptions, ___ can be construed as ___
These assumptions result in ___
This assumption might be addressed in future studies by ___
This compilation of research assumptions should result in ___
These assumptions have been disproved by ___
According to ___ assumption, the study reports faithfully ___

Remit of the experiment:

For the current work, it is sufficient to point out that ___
Because we were interested in ___, we considered only ___
This was sufficient to ___
This is sufficiently generic to be adapted to other ___
This is generally sufficient to produce good results.
Still, results might be sufficient, especially in ___
This was not possible due to insufficient observations.
After a series of experiments ___ was considered as sufficient.
It has been proven that ___ must be sufficient to ___
This was not sensitive enough to ___
This study cannot be considered large enough for ___
This is simpler and usually sufficient to ___
It turns out that it is sufficiently accurate for ___
There is in fact sufficient information present in ___
This is considered sufficiently unique for ___
This is enough to get a sufficiently accurate solution.

4. Results & Discussion

Findings:

From the short review above, key findings emerge: __
We describe the results of __, which show __
This suggests that __
We showed that __
Our findings on __ at least hint that __
This is an important finding in the understanding of the __
The present study confirmed the findings about __
Another promising finding was that __
Our results demonstrated that __
This result highlights that little is known about the __
A further novel finding is that __
Together, the present findings confirm __
The implications of these findings are discussed in __
The results demonstrate two things. First, __. Second, __
The results of the experiment found clear support for the __
This analysis found evidence for __
Planned comparisons revealed that __
Our results casts a new light on __
This section summarises the findings and contributions made.
It performs well, giving good results.
This gives clearly better results than __
The results confirm that this a good choice for __
From the results, it is clear that __
In this section, we will illustrate some experimental results.
This delivers significantly better results due to __
The result now provides evidence to __
It leads to good results, even if the improvement is negligible.
This yields increasingly good results on data.
The result of this analysis is then compared with the __
The applicability of these new results are then tested on __
This is important to correctly interpret the results.
The results are substantially better than __
The results lead to similar conclusion where __
Superior results are seen for __
From these results it is clear that __
Extensive results carried out show that this method improves __
We obtain good results with this simple method.
However, even better results are achieved when using our algorithm.
It is worth discussing these interesting facts revealed by the results of __
Overall, our method was the one that obtained the most robust results.
Slightly superior results are achieved with our algorithm.
The result is equal to or better than a result that is currently accepted.

Comparison with prior studies:

The results demonstrated in this chapter match state of the art methods.
Here we compare the results of the proposed method with those of the traditional methods.
These results go beyond previous reports, showing that __
In line with previous studies __
This result ties well with previous studies wherein __
Contrary to the findings of __ we did not find __
They have demonstrated that __
Others have shown that __ improves __
By comparing the results from __, we hope to determine __
However, in line with the ideas of __, it can be concluded that __
When comparing our results to those of older studies, it must be pointed out that __
We have verified that using __ produces similar results
Overall these findings are in accordance with findings reported by __
Even though we did not replicate the previously reported __, our results suggest that __
A similar conclusion was reached by __
However, when comparing our results to those of older studies, it must be pointed out __
This is consistent with what has been found in previous __
A similar pattern of results was obtained in __
The findings are directly in line with previous findings
These basic findings are consistent with research showing that __
Other results were broadly in line with __

Limitations of your work:

Because of the lack of __ we decided to not investigate __
One concern about the findings of __ was that __
Because of this potential limitation, we treat __
The limitations of the present studies naturally include __
Regarding the limitations of __, it could be argued that __
Another limitation of this __
This limitation is apparent in many __
Another limitation in __ involves the issue of __
The main limitation is the lack of __
One limitation is found in this case.
One limitation of these methods however is that they __
It presents some limitations such as __
Although widely accepted, it suffers from some limitations due to __
An apparent limitation of the method is __
There are several limitations to this approach.
One limitation of our implementation is that it is __
A major source of limitation is due to __
The approach utilised suffers from the limitation that __
The limitations are becoming clear __
It suffers from the same limitations associated with a __

Casual arguments:

A popular explanation of __ is that __
It is by now generally accepted that __
A popular explanation is that __

As it is not generally agreed that __
These are very small and difficult to observe.
It is important to highlight the fact that __
It is notable that __
An important question associated with __ is __
This did not impair the __
This is important because there is __
This implies that __ is associated with __
This is indicative for lack of __
This will not be biased by __
There were also some important differences in __
It is interesting to note that, __
It is unlikely that __
This may alter or improve aspects of __
In contrast, this makes it possible to __
This is particularly important when investigating __
This has been used to successfully account for __
This introduces a possible confound in __
This was included to verify that __

Speculations:

However, we acknowledge that there are considerable discussions among researchers as to __
We speculate that this might be due to __
There are reasons to doubt this explanation of __
It remains unclear to which degree __ are attributed to __
However, __ does seem to improve __
This does seem to depend on __
It is important to note, that the present evidence relies on __
The results show that __ does not seem to impact the __
However, the extent to which it is possible to __ is unknown
Alternatively, it could simply mean that __
It is difficult to explain such results within the context of __
It is unclear whether this is a suitable for __
This appears to be a case of __
From this standpoint, __ can be considered as __
To date, remain unknown
Under certain assumptions, this can be construed as __
Because of this potential limitation, we treat __
In addition, several questions remain unanswered.
At this stage of understanding, we believe
Therefore, it remains unclear whether __
This may explain why __

Deductive Arguments:

A difference between these __ can only be attributable to __
Nonetheless, we believe that it is well justified to __
This may raise concerns about __ which can be addressed by __
As discussed, this is due to the fact that __

Results demonstrate that this is not necessarily true.
These findings support the notion that __ is not influenced by __
This may be the reason why we did not find __
In order to test whether this is equivalent across __, we __
Therefore, __ can be considered to be equivalent for __

5. Conclusion & Future Work

Overall summary:

The paper concludes by arguing __
On this basis, we conclude that __
The authors concluded that __ is not confined to __
This allows the conclusion that __
The findings of this study can be understood as __
This may be considered a promising aspect of __
This may be considered a further validation of __
Remaining issues are subject of __
In summary, this paper argued that __
This aspect of the research suggested that __
In conclusion, __ seems to improve __
In summary, this paper argued that __
In conclusion, it would appear that __
The analysis leads to the following conclusions: __
It is difficult to arrive at any conclusions with regard to __
The main conclusion that can be drawn is that __
The present findings confirm __
As we have argued elsewhere __ may be considered a promising aspect of __
Ideally, these findings should be replicated in a study where __
By using __ we tested the hypothesis that __
In conclusion, __ seems to improve __
Broadly translated our findings indicate that __
This is an important finding in the understanding of the __
More generally, these basic findings are consistent with research showing that __
In addition, these findings provide additional information about __
Despite the limitations these are valuable in light of __
Overall, our results demonstrate a strong effect of __
Nevertheless, we found __
To our knowledge, this is the first report of __
Our results on __ are broadly consistent with __
The broad implication of the present research is that __
This conclusion follows from the fact that __
Collectively, our results appear consistent with __
Importantly, our results provide evidence for __
Results provide a basis for __
This experiment adds to a growing corpus of research showing __
Our data indicate that __; a result that casts a new light on __
These findings provide a potential mechanism for __

We have shown that ___
Our data suggest that we still have a long way to go to ___

Future work:

Future research should consider the potential effects of ___ more carefully, for example ___
This assumption might be addressed in future studies.
Future research on ___ might extend the explanations of ___
This is very much the key component in future attempts to overcome ___
In future work, investigating ___ might prove important.
This is desirable for future work.
Future investigations are necessary to validate the kinds of conclusions that can be drawn from this study.
Future studies could fruitfully explore this issue further by ___
Future research is needed to delimitate ___
It will be important that future research investigate ___
It is a question of future research to investigate ___
We believe that apart from looking for ___, future research should look for ___
Regardless, future research could continue to explore ___
This is an issue for future research to explore.
Future studies could investigate the association between ___
Future studies should aim to replicate results in a larger ___
Future research should be devoted to the development of ___
This may constitute the object of future studies.
Future research could examine ___
Interesting research questions for future research that can be derived from ___
In future research, more research is needed to apply and test ___
This is an interesting topic for future work.
Future research should further develop and confirm these initial findings by ___
Future research should certainly further test whether ___
As also recommended above, future research should ___
Future research should examine strategically ___
Future research might apply ___
In addition, ___ might prove an important area for future research.
A number of recommendations for future research are given.
Therefore, future research should be conducted in more realistic settings to ___
Further research on ___ issue is warranted.
Further work is certainly required to disentangle these complexities in ___
Looking forward, further attempts could prove quite beneficial to the literature.
Further research is needed to confirm this novel finding.
These result warrant further investigation via ___
This provides a good starting point for discussion and further research.
Further studies should investigate ___
The possibility of ___ warrants further investigation.

6. Acknowledgements & Appendix

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Appendix:

For interested readers a detailed description is presented in the Appendix __
Further description is available in the Appendix or from the author __
Complete data is available in __
Supplementary data associated with this article can be found, in the online version, at __
The full colour images can be found in the on-line version, at __