

Latex Tutorial

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Contents

1 Introduction

The budget justification meticulously outlines the allocation of funds essential for the successful execution of the project. It includes provisions for acquiring crucial materials like a 1TB hard disk and 16GB RAM, which are pivotal for efficient data storage and software performance during computational tasks. Additionally, budgetary considerations encompass the procurement of individual REFPROP licenses, indispensable for accessing specialized software required for conducting thermodynamic simulations central to the research objectives. Labor costs for transportation and assembly activities are factored in to ensure seamless project operations and the effective utilization of [?] resources [?].

Furthermore, funds are allocated for research publication fees, facilitating the dissemination of research findings through publications in referred journals or presentations at international conferences. Another significant allocation is made towards thesis typing, printing, and binding expenses, which are vital for the production of final project documentation adhering to academic standards. Lastly, a miscellaneous fund is included to address any unforeseen expenses or additional project needs that may arise during the course of the research. This comprehensive budget structure is designed to cover all essential project expenses, thereby ensuring the smooth implementation of research activities and the attainment of research objectives [?].

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Definition of Python code

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A. Thing One

I. Sub One

II. Sub Two

III. Sub Three

B. Thing Two

C. Thing Three

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Definition of Physics

Physics is the branch of science that deals with the matter and energy and their interaction. Physics is the branch of science that deals with the matter and energy and their interaction. Physics is the branch of science that deals with the matter and energy and their interaction [?].

2 Methodology

2.1 Methodology I



Fig. 1: Caption



(a) Subfigure A



(b) Subfigure B

Fig. 2: Main figure with two subfigures

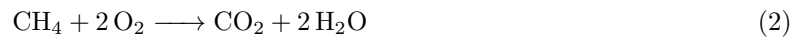
2.2 Methodology II

The quadratic formula is given by ??:

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a} \quad (1)$$

where a , b , and c are coefficients ?? of the quadratic equation $ax^2 + bx + c = 0$.

The combustion of methane (CH_4) can be represented by the following chemical equation www.google.com:



Definition of Python code

```
import numpy as np

def incmatrix(genl1, genl2):
    m = len(genl1)
    n = len(genl2)
    M = None #to become the incidence matrix
    VT = np.zeros((n*m,1), int) #dummy variable

    #compute the bitwise xor matrix
    M1 = bitxormatrix(genl1)
    M2 = np.triu(bitxormatrix(genl2),1)

    for i in range(m-1):
        for j in range(i+1, m):
            [r,c] = np.where(M2 == M1[i,j])
            for k in range(len(r)):
                VT[(i)*n + r[k]] = 1;
                VT[(i)*n + c[k]] = 1;
                VT[(j)*n + r[k]] = 1;
                VT[(j)*n + c[k]] = 1;

            if M is None:
                M = np.copy(VT)
            else:
                M = np.concatenate((M, VT), 1)

    VT = np.zeros((n*m,1), int)

    return M
```

Definition of Python code

```
# Python program to print all  
# prime number in an interval  
  
start = 11  
end = 25  
  
for val in range(start, end + 1):  
  
    # If num is divisible by any number  
# between 2 and val, it is not prime  
    if val > 1:  
        for n in range(2, val):  
            if (val % n) == 0:  
                break  
        else:  
            print(val)
```

Definition of MATLAB code

```
function the_graph = polyfit_graph(x,y,n)  
    p1=polyfit(y,x,n)  
    poly_val=polyval(p1,y)  
    subplot(1,2,1)  
    plot(poly_val,y)  
    subplot(1,2,2)  
    plot(y,x)  
end
```

3 Result and Discussion

Table is ?? shows that ??

A	A	A	A
A	A	A	A
A	A	A	A
A	A	A	A

Table 1: Caption

4 Colclusion