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*dedication (optional)*

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# Summary

Write your summary here...

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# Preface

Write your preface here...

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# Abbreviations

Symbol = definition

# Chapter 1

## Introduction

### 1.1 Equations

To write an equation

```
\begin{eqnarray}\label{eq1}  
F = m \times a  
\end{eqnarray}
```

This will produce

$$F = m \times a \tag{1.1}$$

To refer to the equation

```
\eqref{eq1}
```

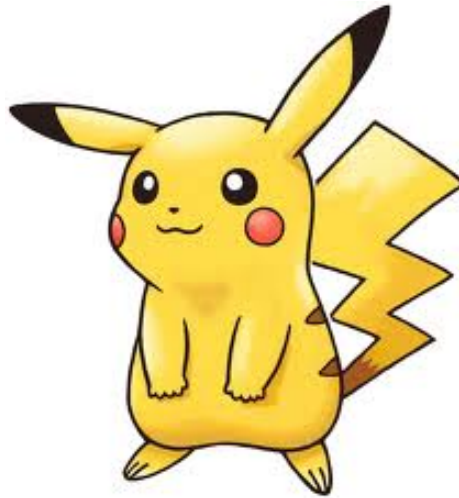
This will produce (1.1).

### 1.2 Figures

To create a figure

```
\begin{figure}[h!]  
  \centering  
  \includegraphics[width=0.5\textwidth]{fig/pikachu}  
  \caption{Pikachu.}  
\label{fig1}  
\end{figure}
```

To refer to the figure



**Figure 1.1:** Pikachu.

```
\textbf{Fig. \ref{fig1}}
```

This will produce **Fig. 1.1**

### 1.3 References

To cite references

```
\cite{1,2,3}
```

or

```
\citep{1,2,3}
```

This will produce: Sarma and Chen (2008); Brouwer and Jansen (2004); Muskat (1937)  
or (Sarma and Chen, 2008; Brouwer and Jansen, 2004; Muskat, 1937), respectively.

### 1.4 Tables

To creat a table

```
\begin{table} [!h]
\begin{center}
\begin{tabular}{ | 1 | 1 | 1 | 1 | }
\hline
\textbf{No.} & \textbf{Data 1} & \textbf{Data 2} & \textbf{ } \\
\hline
\end{tabular}
\end{center}
\end{table}
```

```
1 & a1 & b1 \\ \hline
2 & a2 & b2 \\ \hline
\end{tabular}
\end{center}
\caption{Table 1.}
\label{Tab1}
\end{table}
```

This will produce

<b>No.</b>	<b>Data 1</b>	<b>Data 2</b>
1	a1	b1
2	a2	b2

**Table 1.1:** Table 1.

To refer to the table

```
\textbf{Table. \ref{Tab1}}
```

This will produce **Table. 1.1.**



Chapter **2**

# Literature Review





Chapter **3**

# Basic Theory



Chapter **4**

# Experiment



Chapter **5**

**Analysis**



Chapter **6**

**Conclusion**





# Bibliography

Brouwer, D. R., Jansen, J. D., 2004. Dynamic optimization of waterflooding with smart wells using optimal control theory. *SPE Journal* 9 (4), 391–402.

Muskat, M., 1937. *Flow of Homogeneous Fluids*. McGraw Hill.

Sarma, P., Chen, W. H., 2008. Applications of optimal control theory for efficient production optimization of realistic reservoirs. In: *Proceedings of the International Petroleum Technology Conference*. Kuala Lumpur, Malaysia.



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# Appendix

Write your appendix here...