

The Joint Graduate School of Energy and Environment
Notes of Guidance for Submission and Format of the Final Thesis Report

Submission

1. Master of Philosophy, Master of Science and Doctor of Philosophy students are required to submit copies of the progress report to the JGSEE and all members of the thesis committee, at least 2 weeks before the examination date.

General Format of the Final Thesis Report–(Experimental thesis)

1. GENERAL FORMAT

Paper: Paper should be A4 size (21.6 x 28 cm), white, unlined

Format: Printed, 1.5 lines-space, single sided, 0 paragraph spacing before and after.

Margins: 3 cm margins top and left side, 2.5 cm bottom and right sides.

Page numbering: centered at top of each page in a header. Chapter pagination continues in sequence.

Page numbering style: Body of the report, appendixes---use Arabic numerals (1, 2,3, etc)

Opening pages e.g. Acknowledgements, Abstract ----use Roman numeral (i, ii, iii etc)

DO NOT put page numbers on the cover (title) page or the inner (title) page.

Font style: “Times New Roman”, 12 pt.

The elements of the paper are listed below in the order in which they should appear.

- **The cover page in dark blue** should carry only the following information using CAPITALIZED; thesis title, student name, ID no., degree, program, school, year when dissertation is first submitted for examination. (see attachment 1).
- The report should have **a first title page** including thesis title, student name, degree, program, school, co-university and the name of thesis committee and external examiner, including the place for their signatures (see attachment 2).
- **A second title page** includes thesis title, student name, advisor name, co-advisor name (if any), oversea collaborators, and also contacted address and telephone number for every name (see attachment 3).

2. CONTENT

- The **CONTENTS** page should be headed with the words **CONTENTS** centered on the page.

Chapter titles should be **CAPITALIZED**. On the right-hand side of the Contents pages give the beginning number of each chapter.

Number these pages of lists of tables, figures, illustrations, and abbreviations are roman numerals (v-five, vi-six, vii-seven)

The **CHAPTERS TITLES** of your thesis should be numbered 1, 2, 3, . ; etc.

The Section Headings of each chapter should have **Capitalized Initial Letters**. The sections in the chapters should be numbered 1.1, 1.2, ... ; 2.1, 2.2, ... ; 3.1, 3.2, ... ; etc..

- **LIST OF TABLES**

Tables should be appropriate to the contents of the report. Tables should be clear and easy to read. Tables, which contain much detail, should be avoided or edited to show the important aspect (s). Table should be numbered. It is customary to show table numbering **above** the table. The first number is the chapter number; the second number shows the sequential of tables in the chapter. Thus, Table 4.1 is the first table in chapter four.

- **LIST OF FIGURES**

As with tables, figures should be appropriate to the report. Figures should be clear and easy to read. Over-detailed figures (i.e. ones that contain much data) should be avoided. Figures should be numbered **below** the figure. The number and title of each figure appears at the center on the first line below the figure itself. The first number is the number of the chapter in which the figure appears. The second number shows the sequential of figures in the chapter. Thus, Figure 4.8 is the eighth figure in chapter four.

❑ **LIST OF ILLUSTRATIONS**

❑ **LIST OF SYMBOLS AND ABBREVIATIONS**

These may be listed on one page with the heading LIST OF The heading should be centered at the top of the page.

❑ **THE BODY OF THE REPORT**

The body of the report begins on page 1 with CHAPTER 1: INTRODUCTION. This should appear in CAPITAL LETTERS, centered at the top of the page.

Chapters divided into sections all with separate headings.

Main headings use bold 12 pt and **Capitalized Initial Letters** of the key word. Other grammatical linking words (“and”, “by”, “with”, “for”) should be in lower case lettering.

Subheadings are indented one tab. Use bold 12 pt and **Capitalized Initial Letters** of the key word. Other grammatical linking words (“and”, “by”, “with”, “for”) should be in lower case lettering.

Sub-Subheadings are indented two tabs. Use 12 pt and **Capitalized Initial Letters** of the key word.

CHAPTER 1 INTRODUCTION

Introduction section should include the following key elements:

1.1 Rational/ Problem Statement

What is the rational for conducting the research?

What is the main approach of the research?

1.2 Objectives

Explicitly state the main objectives of your research

CHAPTER 2 PROGRESS OF WORK

Summarize work that has been done in this semester.

2.1 Methodology

2.2 Results

2.3 Occurred problems

CHAPTER 3 WORKING SCHEDULE

Indicate your anticipated future process and methods include a current working schedule.

CHAPTER 4 EXPECTED RESULTS

Give details of your results to date, and indicate your expected future results.

CHAPTER 5 CONCLUSION

Summarize your conclusion

Discuss the weak points of your thesis, and describe how it could be improved.

3. CITATIONS AND BIBLIOGRAPHY WRITING

You must follow the following details in writing citations and bibliography or references.

3.1 Citations

You can use one of the two types of citation systems: number system, and name-year system.

3.1.1 Number system

Put a number of the cited document in brackets, such as [1], [2] at the end of cited name or content in the text. In case where several document are cited for the same content, you can separate each number by , in the same bracket: [1, 2, 3]. In this system, once you assign a number to a document, you must consistently use that number for that document throughout the thesis. In case where you mention more than 3 authors' name, write only the last name of the first author followed by "et al.". For example:

Sugiura et al. [6] proposed that...

3.1.2 Name-year system

3.1.2.1 Mention the name (s) of author(s) and publication year at the end of the cited content in the text. If you cite more than one document, separate them with (;). Use Christian era for the publication dates.

3.1.2.2 In case where there are more than 3 authors, write only the last name of the first author followed by a comma and "et al.". For example:

Price-Williams, et al. (1999) found that

3.1.2.3 In case where you quote from a document, mention the page number from which you quote at the end of publication year, in parentheses. For example:

Deuzen-Smith (1988, p. 29) argued that counselors must be involved with clients and “deeply interested in piecing the puzzle of life together”

3.1.2.4 If the quoting is long, putting it in a following paragraph, which has a different pagination from normal text, and the spacing is less than in normal text. For example:

Barlett (1932, p. 201) explained the cyclic process of perception thus:

“Suppose I am making a stroke in a quick game, such as tennis or cricket. How I make the stroke depends on the relating of certain new experiences, most of them visual, to other immediately preceding visual experience, and to my posture, or balance of posture, at the moment”.

3.2 Bibliography’s format

Bibliography (or references) has the following format.

3.2.1 Books

Name of author or editor, publication year, **name of book**, edition, publisher, publication place, page.

Author or editor’s name

- Start by last name, follow by first name and middle name (abbreviations). For example: Smiths, J.E.

- If the name is editor’s name, put the abbreviation (Ed.) after the name. If there are more than one editor, use (Eds.)

In case where there are three or more authors, write all the names of the authors, Separate by , any by , and between the next-to-last and the last name separate by “and”

Publication year

- Mention the year when the document was published. In case where there are more than one document by the same author, use the letters a, b, c after publication year. For example: 1986a, 1986b

Edition

- You do not have to mention if it is the first edition
- From the second edition and after, you have to mention by using 2nd ed. or 3rd ed., for example.

Page

- If your source of citation is from one page, use p. followed by the page number. But if the citation is from several continuous pages, use pp. followed by the first cited page, - , and the last cited page.

3.2.2 Article in a journal

Name of author, publication year, “name of article”, **name of journal**, Vol., No., pp.

3.2.3 Article in a proceeding

Name of author, publication year, “name of article”, **name of conference**, other detail of conference such as date, place, pp.

3.2.4 Article in a book

Name of author, publication year, “name of article”, In **name of book**, name of editor or compiler, edition, publish, publication place, pp.

3.2.5 Article in newspaper

Name of author, publication year, “name of article”, **name of newspaper**, date, pp.

3.2.6 Thesis

Name of author, publication year, **name of thesis**, degree, major, faculty, university

3.2.7 Patent

Name of patent's owner, year of patent, **name of invented equipment**, country, patent number

3.2.8 Electronic documents

3.2.8.1 Full-text from on-line database such as Science Direct, ABI/Inform, IEEE Xplorer

Name of author, publication year, "name of article", **name of electronic journal**, year, vol., pp., Available: name of publisher/database [date of search].

3.2.8.2 Abstract from on-line database, such as Applied Science and Technology Plus, and Science Direct

Name of author, publication year, [Abstract of "name of article", **name of electronic journal**, Vol., No., pp.] Available: name of publisher/database [date of search].

3.2.8.3 Full-text from E-journals such as Journal of Applied Physics

Name of author, publication year, "name of article", **name of E-journal**. Vol., No., pp., Available: name of publisher [date of search]

3.2.8.4 Information from World Wide Web

Name of author, publication year, **name of Web Page** [Online], Available: URL [date of search].

3.3 Bibliography (Number System)

Put the references in the order of the number cited in the thesis. Type the number of each reference at the left margin, as shown in the following example:

1. Merin, U. and Daufin, G., 1989, "Separation Process Using Inorganic Membrane in the food industry", **International Conference on Inorganic Membranes**, 6 July 1989, Paris, pp. 272-278
2. Nooijen, W.F.J.M. and Muilwijk, B., 1994, "Paint/Water Separation by Ceramic Microfiltration", **Filtration and Separation**, Vol. 31, No. 3, pp. 227-229
3. Lahiere, R.J. and Goodboy, K.P., 1993, "Ceramic Membrane Treatment of Petrochemical Wastewater", **Environmental Progress**, Vol. 12, No. 2, pp. 86-96
4. Terpstra, R.A., Bonekamp, B.C. and Veringa, H.J., 1988, "Preparation Characterization and some Properties of Tubular Alpha Alumina Ceramic Membranes for Microfiltration and as a Support for Ultrafiltration and Gas Separation Membranes", **Desalination**, Vol. 70, No. 1-3 pp. 39-404
5. Auriol, A. and Gillot, J., 1988, **Porous Material and Tubular Filter Made of Said Material**, US. Patent, No. 4,724,078
6. Sugiura, I., Nomura, H., Shinohara, N. and Tsubaki, J., 1993, "Effect of Preparation Condition on Properties of Green and Sintered Body in Alumina", **Journal of the Ceramic Society of Japan.**, Vol. 101, No. 8, pp. 911-915.
7. Yeh, T.s. and Sacks, M.D., 1988, "Effect of Particle Size Distribution on the Sintering of Alumina", **Journal of the American Ceramic Society**, Vol. 71, No. 12, ppC484-487.
8. Dewhinst, C., 1986a, "Hot Air Over the Himalayas", **World Geographic**, Vol. 1, No.4, pp. 44-45
9. Dewhinst, C., 1986b, "Cold Water Around the Antarctic", **World Geographic** Vol. 1, No.5, pp. 32-39.
10. Chicheepsakul, S., Monprapussorn, T. and Huang, T., 2000, "Buckling of Marine Elastica Pipes Transporting Fluid : Heavy Imperfection Column Behavior", **The 1st International Conference on Structural Stability and Dynamics**, December 7-9, Taipei, Taiwan, pp. 249-254.
11. Waechter, E.H., 1987, "How Families Cope : Accessing and Intervening", In **The Child and Family Facing Li**

3.4 Bibliography (Name-Year System)

Put all the references in alphabetical order. Start typing at the left margin. See the following examples :

Benoit, F. and Ceustermans, N., 1993, **Hydroponic Culture of Kitchen Herbs**, European Vegetable R & D Centre, Sint Katelijne Waver, pp. 240 – 243.

Douglas, J.S., 1975, **Hydroponics : The Bengal System with Notes on other Methods of Soilless Cultivation**, 5th ed., Oxford University Press, Oxford, pp. 32 – 47.

Evans, C., 1972, **The Quantitative Analysis of Plant Growth**, University of California Press, Berkeley at Los Angeles, pp. 143 – 150 .

Hewitt, E.S., 1975, **Plant Mineral Nutrition**, English Universities Press, London, pp. 95 – 122.

Jensen, H.M., 1997, “Hydroponics”, **HortScience**, Vol. 33, No. 6, pp. 1018 – 1021.

Mass, E.V., 1969. “Calcium Uptake by Excised Maize Roots and Interactions with Alkali Cations”, **Plant Physiology**, Vol. 44, No. 7, pp. 985 – 989.

Meier, S., 1994, **Soilless Culture Management : Advanced Series in Agricultural Science 24**, Jerusalem College of Technology, Jerusalem, pp. 118 – 122.

Poovaiah, B.W., 1985, “Role of Calcium and Calmodulin in Plant Growth and Development”, **HortScience**, Vol. 97, No. 5, pp. 679 – 682.

4. APPENDIXES (if needed).

The appendix should contain copies of documents that have been used in the research. Examples are: research instruments (questionnaires, interview checklists, names of respondents); research data (raw data, computed results). Each appendix should be

numbered. Page numbering should be continued from the page numbering in the body of the report. If you have Appendix more than one, please use A, B, C.... to list them.

Appendices follow the list of references.

Example:

Appendix A: Questionnaire

Appendix B: Derivation of equations

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Capitalization and bold**

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**INVESTIGATION OF TRANSMISSION OF DAYLIGHT THROUGH CIRCULAR
LIGHT PIPES WITH SPECULAR SURFCES**

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**MR. SIAM SAMUHATANANON
ID: 52910003** } **Line space = 1.0**

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**A THESIS SUBMITTED AS A PART OF THE REQUIREMENTS
FOR THE DEGREE OF MASTER OF PHILOSOPHY
IN ENERGY TECHNOLOGY**

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**THE JOINT GRADUATE SCHOOL OF ENERGY AND ENVIRONMENT
AT KING MONGKUT'S UNIVERSITY OF TECHNOLOGY THONBURI**

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2ND SEMESTER 2010

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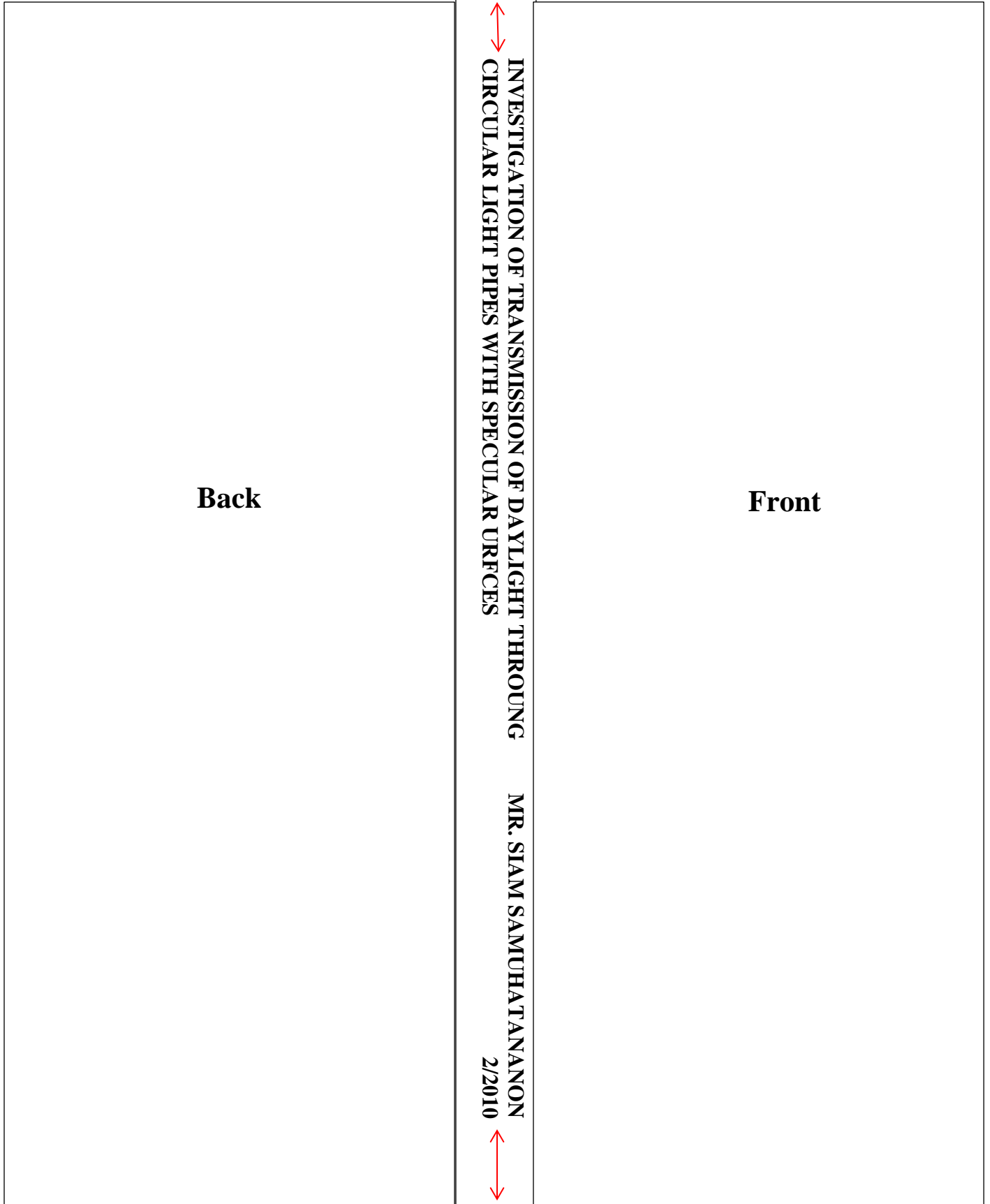
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Back

**INVESTIGATION OF TRANSMISSION OF DAYLIGHT THROUGH
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**MR. SIAM SAMUHATANANON
2/2010**

Front

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Investigation of Transmission of Daylight through Circular Light Pipes with Specular Surfaces

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Mr. Siam Samuhatananon } Line space = 1.0
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2nd Semester 2010

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Thesis Committee

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(Prof. Dr.)	Advisor
Center	
(Assoc. Prof. Dr.)	Co-Advisor (if any)
(Asst. Prof. Dr.)	Member
(Asst. Prof. Dr.)	Member
(Dr.)	External Examiner

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Thesis Title: Investigation of Transmission of Daylight through Circular Light Pipes with
Specular Surfaces

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Student's name, organization and telephone/fax numbers/email

↔ Mr. Siam Samuhatananon

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King Mongkut's University of Technology Thonburi (KMUTT) }

126 Pracha Uthit Rd., Bangmod, Tungkru, Bangkok 10140 Thailand

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Insert 1 blank line

Advisor's name, organization and telephone/fax numbers/email

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The Joint Graduate School of Energy and Environment (JGSEE)

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Telephone: 0-8979-84204 or 02-8729014-5 ext 4128

Email: surapong@jgsee.kmutt.ac.th

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Name of student: Mr. Siam Samuhatananon

Student ID: 52910003

Name of Advisor: Prof. Dr. Surapong Chirarattananon

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ABSTRACT

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CONTENTS

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CHAPTER	TITLE	PAGE
	ABSTRACT	i
	ACKNOWLEDGEMENT	ii
	CONTENTS	iii
	LIST OF TABLES	v
	LIST OF FIGURES	viii
	NOMENCLATURES	xi
1	INTRODUCTION	1
	1.1. Rational/Problem Statement	1
	1.2. Literature Review	9
	1.3. Research Objectives	13
2	THEORIES	15
	2.1 Theoretical Background	15
	2.2 Mathematical Model	19
3	METHODOLOGY	23
	3.1 Experimental Set-up	23
	3.2 System Modeling	26
4	RESULTS AND DISCUSSION	39
	4.1 Simulation Program	39
	4.2 Simulation Results	43
	4.3 System Performance	47
5	CONCLUSION AND FUTURE WORK	50
	5.1 Conclusions	61
	5.2 Future Work	62
	REFERENCES	63
	APPENDIXES	67

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CONTENTS (Cont') *If any*

CHAPTER	TITLE	PAGE
X	X
	X
	X
X	X
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X	X
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LIST OF TABLES

TABLES	TITLE	PAGE
1.1	Time schedule of electricity tariffs.	1
1.2	Electricity costs (TOD Rate) for commercial building.	2
1.3	Electricity costs (TOU Rate) for commercial building.	2
3.1	Characteristic of the components in the chilled water cycle.	24
3.2	Characteristic of the components in the ice storage cycle.	25
4.1	The comparison of ice formation between the simulation and the experiment .	46
5.1	The electrical energy consumed in the office.	50
5.2	The characteristic of the selected office (R1 to R5).	51
5.3	Design conditions under the design day.	52
5.4	The result of cooling load calculation of the selected office on the design day.	52
5.5	Electricity costs (TOU Rate) for commercial building.	56
5.6	The peak energy demand occurred during on-peak period at various categories on the design day.	57
5.7	Electricity charge of the office during the year due to the 5 th category system combination.	59
5.8	The installation cost of the ice storage system.	60
B.1	The present worth of the total profit gained during the lifetime of the system	78

LIST OF TABLES (Cont') *If any*

TABLES	TITLE	PAGE
X	X
X	X
X	X

LIST OF FIGURES

FIGURE	TITLE	PAGE
1.1	Hourly load profile for a building with a conventional air conditioning system on design day compared with three thermal energy storage strategies.	6
1.2	Schematic diagram of building circuit for ice thermal energy storage.	7
1.3	Schematic of direct contact evaporator tank.	8
3.1	Schematic diagram of the experimental set-up.	23
3.2	Schematic diagram of the experimental set-up for the ice storage system.	25
3.3	The relation between pressure ratio of the compressor and a function of $m_r T_{cp,i}^{0.5}/P_{cp,i}$.	28
3.4	The relation between pressure ratio of the compressor and a function of $m_r T_{cp,o}^{0.5}/P_{cp,o}$.	28
3.5	The relation between mass flow rate of the refrigerant and the polytropic index of the compressor in chilled water system.	29
3.6	The relation between the pressure ratio in the chilled water system and the refrigerant mass flow rate.	30
3.7	The relation between the pressure ratio of the compressor and the pressure ratio of the expansion valve in the chilled water system	31
3.8	The relation between pressure ratio of the compressor in the ice storage system and a function of $m_r T_{cp,o}^{0.5}/P_{cp,o}$ and N .	33
3.9	The relation between mass flow rate of refrigerant and the polytropic index of the compressor in ice storage system.	33
3.10	The effect of mass flow rate of air and total heat transfer	

NOMENCLATURES **If any**

Abs	solar absorptance
ASH	the absorbed solar radiation equivalence to ESR due to heat stored in the interior walls from absorption of transmitted solar radiation during daytime, W/m ²
BR	bed room
C	convection heat flux, W.m ⁻²

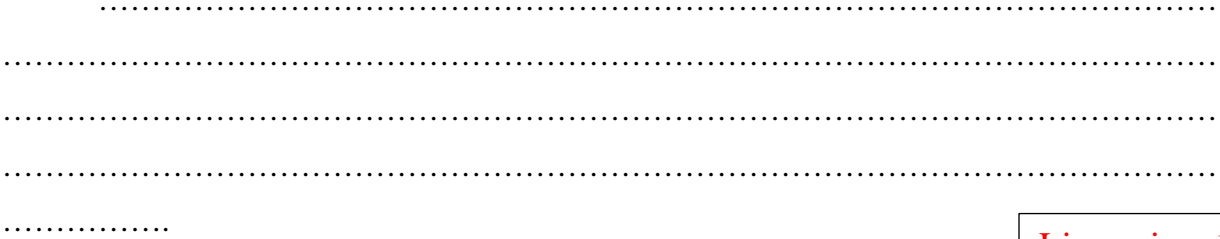
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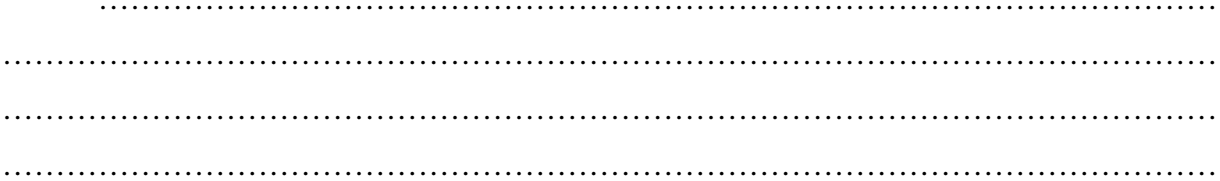
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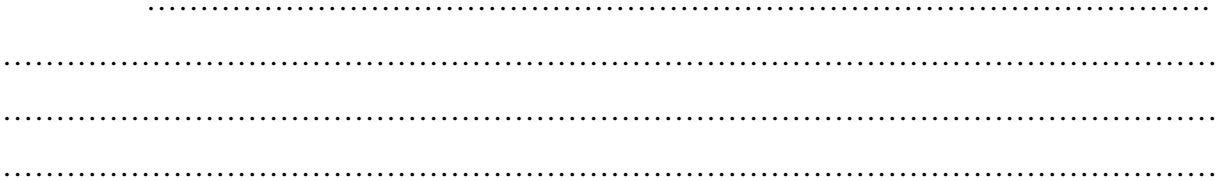


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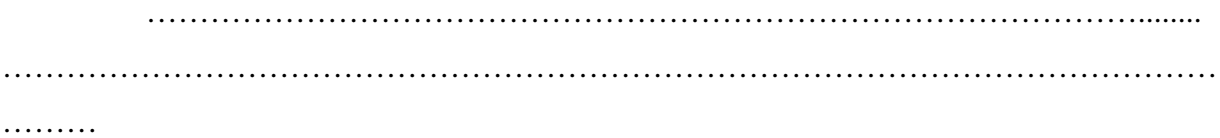
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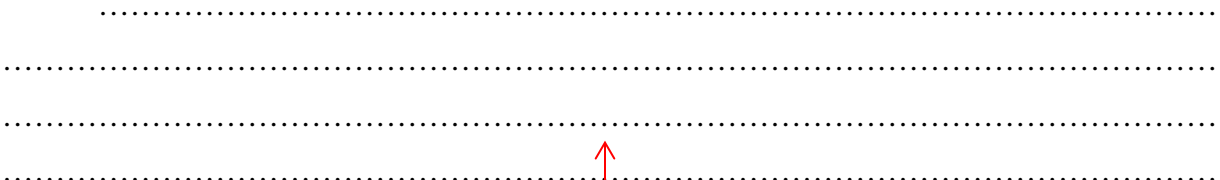
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REFERENCES

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1.  Chiraratananon, S., & Hien, V. D. (2011). Thermal performance and cost effectiveness of massive walls under Thai climate. *Energy and Building*, 43(7), 1655-1662.
2. Kossecka, E., & Kosny, J. (2002). Influence of insulation configuration on heating and cooling loads in a continuously used building. *Energy and Building*, 34(4), 321-331.

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REFERENCES (Con't) **If any**

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APPENDIXES

APPENDIXES: A