شبكة المعلومات الجامعية

بسم الله الرحمن الرحيم

شبكة المعلومات الجامعية

التوثيق الالكتروني والميكروفيلم

شبكة المعلومات الجامعية

جامعة عين شمس

التوثيق الالكتروني والميكروفيلم

قسم

نقسم بالله العظيم أن المادة التي تم توثيقها وتسجيلها
علي هذه الأفلام قد أعدت دون أية تغيرات

يجب أن

تحفظ هذه الأفلام بعيدا عن الغبار

في درجة حرارة من ١٥-٢٥ مئوية ورطوبة نسبية من ٢٠-٤٠%

To be Kept away from Dust in Dry Cool place of 15-25- c and relative humidity 20-40%

بعض الوثائق الاصلية تالفة

بالرسالة صفحات لم ترد بالاصل

Mansoura University
Faculty of Engineering
Mechanical Power Eng. Dept

Analysis of Condensation Process From Moist Air

A Thesis
Submitted in Partial Fulfillment of the Requirements for the Master Degree of Science in Mechanical Power Engineering

BY
Eng. Ali Musaed Alharran
B.Sc. Mechanical Power Engineering

Under Supervision of

Prof. Dr. Mohamed Gamal Hassan Wasel
Mech. Power Eng. Dept.
Faculty of Engineering
Mansoura University

Dr. Mohamed Ghassoub Saafan Mousa
Mech. Power Eng. Dept.
Faculty of Engineering
Mansoura University

2008

Mansoura University
Faculty of Engineering
Mechanical Power Eng. Dept

Analysis of Condensation Process From Moist Air

A Thesis
Submitted in Partial Fulfillment of the Requirements for the Master Degree of Science in Mechanical Power Engineering

BY
Eng. Ali Musaed Alharran
B.Sc. Mechanical Power Engineering

Under Supervision of

Prof. Dr. Mohamed Gamal Hassan Wasel
Mech. Power Eng. Dept.
Faculty of Engineering
Mansoura University

Dr. Mohamed Ghassoub Saafan Mousa
Mech. Power Eng. Dept.
Faculty of Engineering
Mansoura University

2008

Supervision Committee

Thesis Title: **"Analysis of condensation process from moist air"**
Researcher Name: **Ali Musaed Elharran**
Supervisors:

Name	Position
1. ***Prof. Dr.*** **Mohamed Gamal Wasel**	**Prof. Dr.** in Mech. Power Dept. Faculty of Engineering Mansoura University
2. ***Assoc. Prof. Dr.*** **Mohamed Ghassoub Saafan**	**Assoc. Prof. Dr.** in Mech. Power Dept. Faculty of Engineering Mansoura University

Supervision Committee:

Name	Position	Signature
Prof. Dr. **Mohamed Gamal Wasel**	**Prof. Dr.** in Mech. Power Dept. Faculty of Engineering Mansoura University	M. G. W.
Assoc. Prof. Dr. **Mohamed Ghassoub Saafan**	**Assoc. Prof. Dr.** in Mech. Power Dept. Faculty Of Engineering Mansoura University	M. G. M.

Head of Mechanical Power Engineering Dept.

Vice Dean of the Faculty for High Studies

Dean of the Faculty

Supervision Committee

Thesis Title: **"Analysis of condensation process from moist air"**
Researcher Name: **Ali Musaed Elharran**
Supervisors:

Name	Position
1. ***Prof. Dr.*** **Mohamed Gamal Wasel**	**Prof. Dr.** in Mech. Power Dept. Faculty of Engineering Mansoura University
2. ***Assoc. Prof. Dr.*** **Mohamed Ghassoub Saafan**	**Assoc. Prof. Dr.** in Mech. Power Dept. Faculty of Engineering Mansoura University

Supervision Committee:

Name	Position	Signature
1. *Prof. Dr.* **Nabil Ibrahim Hewedy**	**Prof. Dr.** in Mech. Power Dept. Faculty of Engineering Monofia University	
2. *Prof. Dr.* **Ahamed Abdel-razik sultan**	**Prof. Dr.** in Mech. Power Dept. Faculty of Engineering Mansoura University	
3. *Prof. Dr.* **Mohamed Gamal Wasel**	**Prof. Dr.** in Mech. Power Dept Faculty of Engineering Mansoura University	
4. *Assoc. Prof. Dr.* **Mohamed Ghassoub Saafan**	**Assoc. Prof. Dr.** in Mech. Power Dept. Faculty Of Engineering Mansoura University	

Head of Mechanical Power Engineering Dept.

Vice Dean of the Faculty for High Studies

Dean of the Faculty

Acknowledgement

At first I have to thank our merciful God for every thing He gives me.

I wish to express my deep thanks and gratitude to my supervisor ***Prof. Dr. Mohamed Gamal Hassan Wasel***, Professor of Mech. Power Eng, Faculty of Engineering, Mansoura University, for his valuable smooth supervision, advises and help during the performance of this work.

My sincere thanks and gratitude to ***Dr. Mohamed Ghassoub Saafan Mousa*** , Professor of Mech. Power Eng, Faculty of Engineering, Mansoura University for his criticism, valuable suggestion and constant interests during the performance of this study.

I also wish to thank the technical staff of the Gas dynamic laboratory, Faculty of Engineering, Mansoura University, for their help during the experimental work.