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 اعدت دون آية تغيرات

يجب أن

تحفظ هذه الأفلام بعيداً عن الغبار

في درجة حرارة من 15 – 20 مئوية ورطوبة نسبية من 20-40 %

To be kept away from dust in dry cool place of
15 – 25c and relative humidity 20-40 %

بالرسالة صفحات

لم ترد بالأصـــل

بعض الوثائق الأصلية تالفة

SOLAR COOKERS AND STILLS FOR SINAI PENINSULA REMOTE AREAS

By

Hosny Ibrahim Sabry

B.Sc. Faculty of Science Ain Shams University
Diploma in Environmental Science 1990

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Under the Supervision of:

Prof. Dr. Mostafa Mohamed Ismail Shalaby Professor of Theoretical Physics, Faculty of Science Ain-Shams Univ.	**Dr. Eng. Anhar Ibrahim Hegazi** R & D Sector Director of the New and Renewable Energy Authority (NREA)	**Prof. Dr. Samy Kamal Hindawy** Assoc. Professor of Physics, Faculty of Science Ain Shams Univ.

This thesis for M.Sc. Degree in Environmental Sciences has been discussed and approved by:

1. ***Prof. Dr. Mostafa Mohamed Ismail Shalaby***
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2. ***Dr. Eng. Anhar Ibrahim Hegazi***
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   Professor of Physics, Faculty of Science.
   Ain-Shams University & Sub. Dean for Environmental Affairs.

Date of Discussion: 11/8/1998.

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4. Finally, tests are also carried out at optical laboratory of NREA to investigate:

a) The ability of solid surfaces to irradiate the heat gained as infrared radiation by using a Radiometer.

b) The photo nature of solid surfaces (absorptance, emittance, transparency) which are used in the equipments of solar energy.

The scope of the latest test is to select the most suitable material for coating the flat plate (absorber) in order to increase its selectivity & to indicate the best reflecting material for lining the dish.

Generally, the tests were eminently successful and resulted in improving cooking & desalinating processes, till cooking time became approximnately the same as with conventional cooking fires or with kerosene or gas burners. Thus the aim of the research work has been efficiently achieved without any pollutants.

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