



شبكة المعلومات الجامعية

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ





شبكة المعلومات الجامعية



شبكة المعلومات الجامعية

التوثيق الالكتروني والميكرو فيلم

جامعة عين شمس

التوثيق الالكتروني والميكرو فيلم

قسم

نقسم بالله العظيم أن المادة التي تم توثيقها وتسجيلها
علي هذه الأفلام قد اعدت دون أية 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 %



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بعض الوثائق الأصلية تالفة

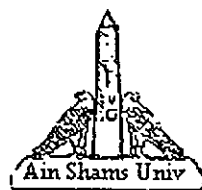


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بالرسالة صفحات
لم ترد بالأصل

AIN SHAMS UNIVERSITY
FACULTY OF WOMEN FOR ART,
SCIENCE AND EDUCATION



Realization of NIS Primary Standard Radiation Thermometer

Thesis submitted in fulfillment of the
requirements of the Ph.D.

By
Khalid Mohamed Mohamed Ali

Research Assistance at National Institute for Standards

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Dr. T.Ricolfi
Thermometry Departement
Istituto di Metrologia "G.Colennitti"
IMGC-Italy
Consiglio Nazionale Della Recerche

1999

B 9090



by

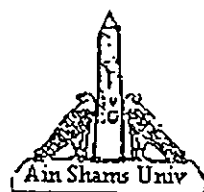
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SCIENCE AND EDUCATION



APPROVAL SHEET

Student's Name: **Khalid Mohamed Mohamed Ali**
Thesis Title : **Realization of NIS Primary Standard
Radiation Thermometer.**
Degree : **Doctor Philosophy of Science (Physics)**

Supervision Committee

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Date of Research

Graduation : M.Sc.(Physics) Faculty of Women for Art,
Science and Education, Ain Shams University
1994.

Date of approval:

Stamp:

/ /1999

Approval Faculty Council:
/ /1999

Approval University Council
/ /1999

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DECLARATION

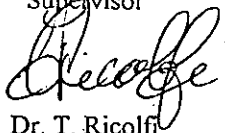
Title of thesis: **REALIZATION OF NIS PRIMARY STANDARD RADIATION
THERMOMETER**

by Khalid M. M. Ali

Having examined the full text of the thesis in object, I declare that it describes the results of an original experimental work. The output from this work will represent an important advancement for the capabilities of NIS because there is now the possibility of realizing the ITS-90 in the high temperature range using the standard thermometer described in this thesis. I personally followed the development of this work that was partially carried on in my institute in Italy and can guarantee on the results that are described. Furthermore, the content of this thesis, which presents an overview of the general problems in today radiation thermometry, may find a use for educational purposes, and this is important on the light of the needs of a developing metrological institute.

Torino, February 18, 1999

Supervisor



Dr. T. Ricolfi

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I would like to express my sincere thanks to:

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بسم الله الرحمن الرحيم

"سبحانك لا علم لنا إلا ما علمتنا"

انك أنت العليم الحكيم

صدق الله العظيم

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