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## جامعة عين شمس

التوثيق الالكتروني والميكروفيلم



نقسم بللله 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 %



ثبكة المعلومات الجامعية





Information Netw. " Shams Children Sha شبكة المعلومات الجامعية @ ASUNET بالرسالة صفحات لم ترد بالأص

### Ain Shams University Faculty of Engineering

#### STRENGTH OF TRANSMISSION TOWERS OF COLD-FORMED ANGLES

#### By

#### MAHMOUD AHMED EL GHOURAB

B.Sc. (Honors) 1985, M.Sc. 1991 Structural Division Structural Engineering Department Ain Shams University

#### A Thesis

Submitted in partial fulfillment for the requirement of the Degree of Philosophy Doctoral in Civil Engineering (Structural)

Supervised by

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Cairo 2001

BZXIN

#### **STATEMENT**

This dissertation is submitted to Ain Shams University in partial fulfillment for the requirement of the degree of **Philosophy Doctoral** in Civil Engineering (Structural).

The work included in this thesis was carried out by the author in the Civil Engineering Department (Structural Division), Ain Shams University.

No part of this thesis has been submitted for a degree or a qualification at any other University or Institution.

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