

شبكة المعلومات الجامعية







شبكة المعلومات الجامعية التوثيق الالكتروني والميكروفيلم



شبكة المعلومات الجامعية

جامعة عين شمس

التوثيق الالكتروني والميكروفيلم

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2910

Some general problems for evaluating the magnetic field in sheets with applications.

Presented by

Doaa Mostafa Ali El-Sakout

A Thesis Submitted to Faculty of Science

In Partial Fulfillment of the Requirements for the Degree of M. Sc. of Science (Applied Mathematics)

Mathematics Department Faculty of Science Cairo University

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ABSTRACT

Student Name: Doaa Mosatafa Ali El-Sakout

Title of the thesis: Some general problems for evaluating the magnetic field in sheets with applications.

Degree: M.SC (Applied mathematics.)

In this thesis we find two coupled linear Fredholm integral equations of the second kind on two plane closed contours for the determination of the induced magnetic field in an infinite plane current sheet with two insertions of different electric conductivity by a boundary integral method. Some examples were solved and discussed to asses the efficiency of the used boundary integral method. Comparison is carried out with previous results for one insertion and for two holes.

Keywords: 1- Plane current sheets

- 2- Hole- insertion
- 3- Boundary integral method

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18/6/2011

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APROVAL SHEET FOR SUMISSION

Thesis Title: Some general problems for evaluating the magnetic field in sheets with applications.

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This thesis has been approved for submission by the supervisors:

attia ashan

1- Prof. Dr. Attia Abd El-Salam Ashour

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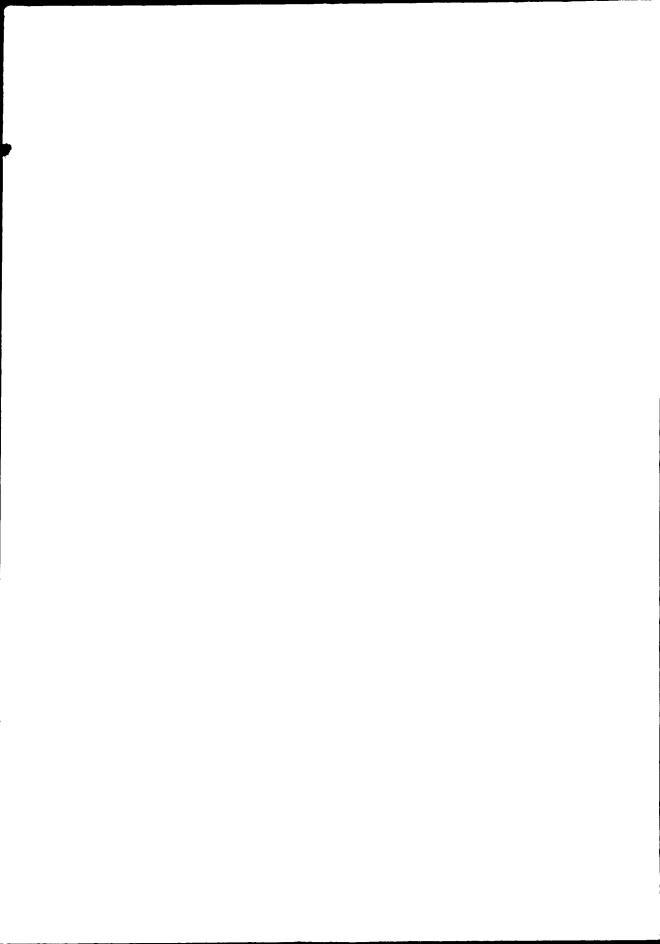
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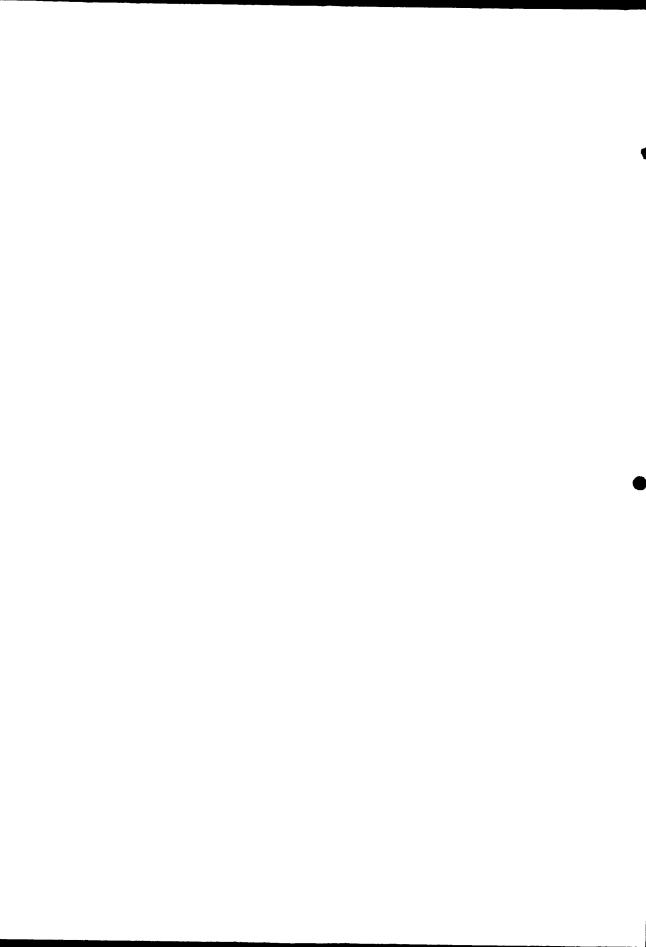
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 $To\ my\ parents$

