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An effective way of dealing with many two dimensional problems is to introduce a new "unknown", the Airy stress function?, an idea brought to us by George Airy in 1862.

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The stresses are written in terms of this new function and a new differential equation is obtained, one which can be solved more easily than Navier's equations.

3.2 The Stress

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Replacing our proposed stress function into this equation we get:

$$K \frac{\partial^2 \phi}{\partial x^2} + 2 \frac{\partial^2 \phi}{\partial x \partial y} + \frac{\partial^2 \phi}{\partial y^2} = 2G \theta$$

where θ is the angle of twist per unit length. For a rectangular cross-section of width a and height b , the boundary conditions are:

$$\phi = 0 \quad \text{at } x = \pm a \text{ and } y = \pm b$$

Determine the relationship between the applied torque T

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and the rate of twist by using the torque- θ relation (6.14) $T = 2 \int R A \theta' dA$. Interpret this important relation.

Module 6 Torsion - MIT

The case of a distributed linear load

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$\phi(P, \theta)$ on an infinite solid can be solved with Airy stress functions in polar coordinates. The stress function in this case is

$$\phi = -\frac{P}{\pi} r^2 \cos^2 \theta$$

The function can be

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inserted in the biharmonic equation to verify that it is indeed a solution. The stress components obtained from differentiating the stress function are therefore a valid solution

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to a particular
problem. But
which one?

Airy Stress Functions - Fracture Mechanics

Stress is the
expression of
force applied to
a unit area of
surface. It is
measured in psi

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(English unit)
or in MPa (SI
unit). Another
unit of stress
which is not
commonly used is
the dynes (cgs
unit). Stress is
the ratio of
force over area.
 $\text{stress} = \text{force} /$
 area . Simple
Stresses

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Strength of
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The solution to the elastostatic problem now consists of finding the three stress functions which give a stress tensor which

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obeys the Beltrami-Michell compatibility equations for stress.

Substituting the expressions for the stress into the Beltrami-Michell equations yields the expression of the elastostatic

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problem in terms
of the stress
functions: [3]

Stress functions - Wikipedia

Show that the
stress function
Top 2 [sin? e
logr +0 sin 6
cos 6 - sin? 0]
7T gives the
solution to the
problem of an

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elastic half
space loaded by
a uniformly
distributed
shear over the
free surface (x_2
 < 0) , as shown
in the figure. ?
?

**Show That The
Stress Function
Top 2 [sin? E
Logr ...**

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In the absence of body forces, a function that satisfies the compatibility equation of 11.21 is given by the following relation between the Cauchy stresses and the Airy stress function:

$$(11.22) \quad \sigma_{rr} = 1$$

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$$\begin{aligned} & r^2 \left(\frac{\partial^2}{\partial r^2} + \frac{1}{r} \frac{\partial}{\partial r} \right) \left(\frac{\partial^2}{\partial \theta^2} + \frac{\partial^2}{\partial z^2} \right) \psi \\ & = \frac{1}{r} \frac{\partial}{\partial r} \left(\frac{\partial^2}{\partial r^2} + \frac{1}{r} \frac{\partial}{\partial r} \right) \left(\frac{\partial^2}{\partial \theta^2} + \frac{\partial^2}{\partial z^2} \right) \psi \\ & \left[\frac{1}{r} \frac{\partial}{\partial r} \left(\frac{\partial^2}{\partial r^2} + \frac{1}{r} \frac{\partial}{\partial r} \right) \left(\frac{\partial^2}{\partial \theta^2} + \frac{\partial^2}{\partial z^2} \right) \psi \right] \end{aligned}$$

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Substituting the
above
expressions for
the stress

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components into equation (b), we find that the stress function ϕ must satisfy the equation

Thus the solution of a two-dimensional problem, when the weight of the body is the only body force, reduces to

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finding a solution of above equation, which satisfies the boundary conditions of the problem.

LECTURE NOTES ON

The solution of problems in elasticity presents difficulties,

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but the procedure may be simplified by the introduction of a stress function. For a particular two-dimensional case, the stresses are related to a single function of x and y such that

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substitution for the stresses in terms of this function automatically satisfies the equations of equilibrium no matter what form the function may take.

**Aircraft
Structures for**

Page 43/50

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Westergaard
found an Airy
stress function
of complex
numbers that is
the solution for
the stress field
in an infinite
plate containing
a crack. But
before getting

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to the function,
a little more
notation is
needed.

Fortunately, it
is simple: The
integral of
 $\psi(z)$ is
represented by a
Finally, the
derivative of
 $\psi(z)$ is
represented by
 $\psi'(z)$.

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Westergaard's
Solution for
Cracks -
Fracture
Mechanics**

Use appropriate combinations of the Airy stress functions provided to: (a) Construct a solution for the case of an

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cantilevered
beam loaded by
an end load as
pictured. (b)
Compare these
results (for σ_{xx}
and σ_{xz}) with
those from
simple beam
theory.

4. Use

Appropriate

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...

This is not a direct solution to a posed problem, per se, but is known as...

The Inverse Method In general, for cases of plane stress without body force or

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temp (? 4 ? =
0): 1. A stress
function $\phi(x, y)$ is assumed
that satisfies
the biharmonic
equation 2. The
stresses are
determined from
the stress
function as
defined in
equations (8-1)
- (8-3) 3.

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