Beams on Elastic Foundations— Solution by Relaxation Methods

By W. Wright, B.Sc., Ph.D., A.M.LC.E.

Several pure mithematical marriage have been obtained for bears resting on electic foundations, sec. for entaingle, Terongle's "Theoretical fool Mechanica but these are restricted to certain standard types of loading and to constant floreral rigidity of the beam.

A practical application of these solutions is represented by a beam (usually concerte) reating on a soil which is insupped to have a constant subprade condules this similation. Desire the appearance presented to be cholest that foundation unit distance, but dimensions (472.7).

In practice, there is a considerable vertation in the value at the subgrade modulus, the assumed decimal rigidity of the boson and the assumed values of lead-This is, therefore, a type of problem particularly sained to solution by Robanston Methods, an exact polytion is unabbigginable but a substitut to any required diagram of accuracty in easily bound. In view of the encortainty of the other data, particularly the subgrade medicine, the degree of accuracy aimed at need not be exacting.

The relaxational carthod is readily adaptable to see type of loading and to are variation in flavoral rigidaralong the beam, whereas such variations tend to make the adultion by ours mathematics very complex and tredformer.

Сомением Единтине——

The governing equation is, from the usual beam Commence of the last

El
$$\frac{dy}{dx^2} + ky - \kappa(x) = \kappa$$

s, y are Cartesian m-ordinates Ed. — the flexunal ciridity of so the flexusal rigidity of the beam

or(x) - the lineding intensity at a

- Subgrade Medulos.

As a test of the religiation method, the "standard case " of a central point had acting on a from of unitorn flammal rigidity has been worked out and checked against the salution as obtained by the more conventhinked transferences.

Replacemental, Appropriate

The beam is divided into a number of equal parts b. apart. The governing equation is then expressed in facts defineence form and values of the wanted function. y are guessed at each point in the suage. These values are safestituted in the finite difference equation for the point and the resultant error or residual framet. This is then hereistated by meane of suitable operations, the had recided being reads as small as we please, nonpatible with the accuracy required. When the definetions have been found, the practically important shours and bending moments are nouly calculated.

Francis Диропичност Алуномималися

The governing equation is
$$\frac{E T d^2 y}{d x^2} + \delta y - W(x) = 0$$
.

and this must be expressed in finite difference flegs.

Considering 3 adjacent points of subdivision, the finite

difference form of
$$\frac{d^2 h^2 y}{dx^2}$$
 at the point x is $h^2 \left(-\frac{d^2 y}{dx^2} \right)_{\beta} =$

一种的变形 医心中的心 Differentiating twice and multiplying by #4

$$\frac{d^{4}}{dx^{4}}\left(\frac{d^{4}y}{dx^{4}}\right)_{x} = -\frac{2d^{4}y_{10}}{dx^{4}} + \frac{2d^{4}y_{11}}{dx^{4}} + \frac{2d^{4}y_{13}}{dx^{4}} + \frac{2d^{4}y_{13}}{dx^{4}}$$

... The equation expressed to finite difference form is

$$-\frac{dy_1+dy_1+dy_2-y_2-y_3}{ET} = u = F_3$$

The relaxation pattern for inpublishing residuals will be ther this opposed poems as

In order to tetospect the Isomolary conditions we need

also
$$\frac{d^2y}{dx^4}$$
 and $\frac{d^2y}{dx^2}$ expressed in faire difference form.

not Reddonest to-

$$A^{\mu} \left(\frac{d^{2}y}{dx^{2}} \right)_{\mu} = -2dy_{\mu} + 1d(y_{\mu} + y_{\mu}) = -\frac{2}{4\pi} (y_{\mu} + y_{\mu})$$

 $A^{\mu} \left(\frac{d^{2}y}{dx^{2}} \right) = 2y_{\mu} - 4y_{\mu} + 4y_{\mu} - 4y_{\mu}.$

F. Molecusium Infoliacit in Engineering Contract - Condensity

Solution Manual For Beams On Elastic Medium

Julia Schneider

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