

Two-Dimensional Problems in Elasticity

3.1. PROBLEM STATEMENT

In the three previous and articles (1-3), the approaches to two-dimensional and the three-dimensional the influence of applied loads on elastic bodies and the mechanics of materials in elementary theory (the theory of structural theory) and the theory of elasticity. Both deal only on the conditions of equilibrium and make use of a relationship between stress and strain that is usually considered as the associated with elastic materials. The essential difference between these methods lies in the system in which the stress is described and in the type of simplifications employed.

The mechanics of materials approach uses as generalized deformation results in stress distribution in the body as a whole and hence yields the average stress in a section under a given loading. Moreover, it usually treats separately such simple type of complex loading, for example, axial stress, bending, or torsion. Although of practical importance, the derivation of the mechanics of materials and their method for relatively simple problems and are derived on the basis of very restrictive conditions. For the other hand, the method of elasticity does not only use a generalized deformation results and deals with the general equations to be satisfied by a body in equilibrium under any external force system.

The theory of elasticity is preferred where critical design requirements such as maximum weight, maximum cost, or high reliability factors must be considered or where given requirements in limited load conditions does not allow adequately to supply the desired requirements with one degree of accuracy. If properly applied, the theory of elasticity should yield solutions more closely approximating the actual distribution of stress, strain, and displacement.

Now, elasticity theory provides a check on the structures of the mechanics of materials solutions. The comparison, however, that both techniques used are approximate solutions of stress, each of considerable value and each approximating the other.

Chapter 3 Two Dimensional Problems In Elasticity

SA Dillow



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