

Two-Dimensional Problems in Elasticity

3.1. INTRODUCTION

In the three previous chapters (1, 2, 3), the approaches to two-dimensional and the three-dimensional theory of applied loads on elastic bodies and the mechanics of materials or structures theory (the latter an extension of theory) and the theory of elasticity. Both deal only on the conditions of equilibrium and make use of a balance of forces, 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 primary deformation results or stress distributions in the body as a whole and hence yields the average stress as a result under a given loading. Moreover, it usually treats separately each simple type of simple 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 result 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 conditions result in maximum weight, maximum cost, or high reliability. Details such as treatment of stress concentration in limited load situations does not arise independently to study the local singularity with any 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 yield are approximations of stress, each of considerable value and each approximating the other.

Chapter 3 Two Dimensional Problems In Elasticity

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