

17

BEAMS SUBJECTED TO TORSION AND BENDING -I

1.0 INTRODUCTION

When a beam is transversely loaded in such a manner that the resultant force passes through the longitudinal shear centre axis, the beam only bends and no torsion will occur. When the resultant acts away from the shear centre axis, then the beam will not only bend but also twist.

When a beam is subjected to a pure bending moment, originally plane transverse sections before the load was applied, remain plane after the member is loaded. Even in the presence of shear, the modification of stress distribution in most practical cases is very small so that the Engineer's Theory of Bending is sufficiently accurate.

If a beam is subjected to a twisting moment, the assumption of planarity is simply incorrect except for solid circular sections and for hollow circular sections with constant thickness. Any other section will warp when twisted. Computation of stress distribution based on the assumption of planarity will give misleading results. Torsional stiffness is also seriously affected by this warping. If originally plane sections remained plane after twist, the torsional rigidity could be calculated simply as the product of the polar moment of inertia ($J_p = I_{xx} + I_{yy}$) multiplied by (G), the shear modulus, viz. $G (I_{xx} + I_{yy})$. Here I_{xx} and I_{yy} are the moments of inertia about the principal axes. This result is accurate for the circular sections referred above. For all other cases, this is an overestimate; in many structural sections of quite normal proportions, the true value of torsional stiffness as determined by experiments is only 1% - 2% of the value calculated from polar moment of inertia.

It should be emphasised that the end sections of a member subjected to warping may be modified by constraints. If the central section remains plane, for example, due to symmetry of design and loading, the stresses at this section will differ from those based on free warping. Extreme caution is warranted in analysing sections subjected to torsion.

2.0 UNIFORM AND NON-UNIFORM TORSION

2.1 Shear Centre and Warping

Shear Centre is defined as the point in the cross-section through which the lateral (or transverse) loads must pass to produce bending without twisting. It is also the centre of rotation, when only pure torque is applied. ***The shear centre and the centroid of the cross section will coincide, when section has two axes of symmetry. The shear centre will be on the axis of symmetry, when the cross section has one axis of symmetry.***

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