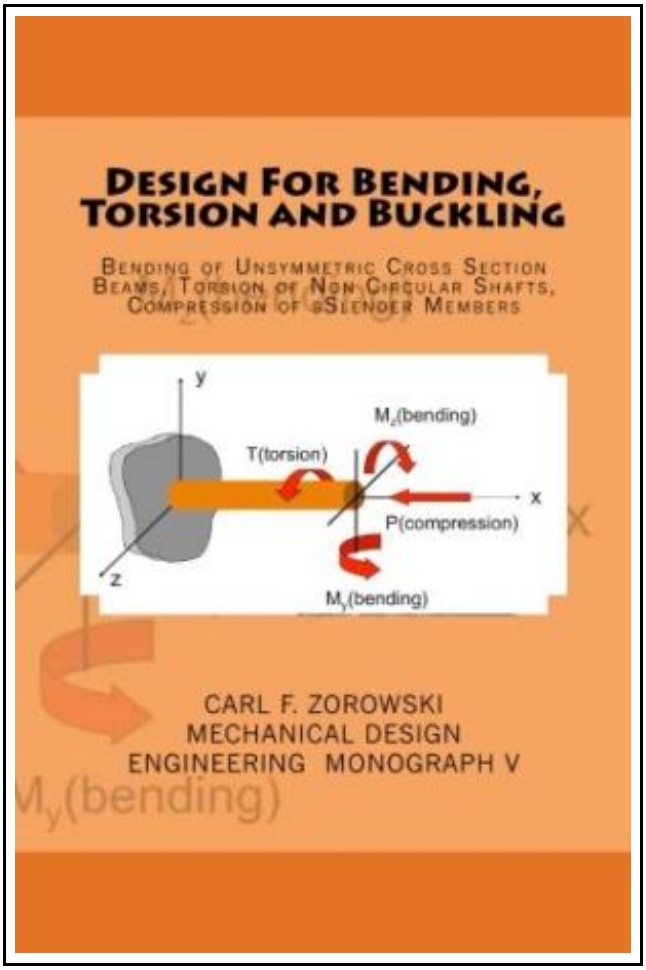
Design for Bending, Torsion and Buckling (Paperback)



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Reviews

Completely essential go through book. This is for all who statte there had not been a worthy of reading through. It is extremely difficult to leave it before concluding, once you begin to read the book.

(Lydia Legros)

DESIGN FOR BENDING, TORSION AND BUCKLING (PAPERBACK)

Createspace Independent Publishing Platform, United States, 2017. Paperback. Condition: New. Language: English . Brand New Book ***** Print on Demand *****.Design Monograph V deals with predicting the internal stress states created by bending, torsion and buckling deformation behavior. In addition to presenting classical solution models applicable to simple geometries and loadings the content is expanded to cover more complex circumstances not always covered in standard texts on the subject. Chapter 1 of Design for Bending begins with the classic simple beam theory model that predicts a linear internal normal bending stress distribution that balances the bending moment at that location. However, it is only applicable to a beam whose cross section possesses an axis of symmetry. This model is generalized to apply to beams possessing any general cross section geometry with no restriction on how the loading is applied. In Chapter 2 advantage of the area properties about rotated axes in the cross-section permit a simplification of the general stress formulation. This leads to a convenient method of determining the neutral axis of bending and the location and magnitude of the maximum stress. Chapter 3 presents two numerical examples that demonstrate the application of this procedure to a specific right angle and z cross section beams. The results are compared to stress values calculated using the simple beam model formula. Chapter 1 of Design for Torsion begins with the classic model for determining the maximum shear stress and unit twist in a solid or hollow circular shaft subjected to an applied torque. An approximate solution a rectangular cross section is presented by analysis of a pressurized membrane as an analogy to the theory of elasticity formulation. The thin rectangular section solution is adapted to solve numerically the torsional behavior of an extruded H section shaft. In Chapter 2 the membrane...

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