

Strength of materials  
4th ed. by ferdinand I.  
singer essay



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## Contents

- [email protected] com. Problem 310 Show that the hollow circular shaft whose inner diameter is half the outer diameter has a torsional strength equal to  $15/16$  of that of a solid shaft of the same outside diameter. Solution 310 Problem 311 An aluminum shaft with a constant diameter of 50 mm is loaded by torques applied to gears attached to it as shown in Fig. P-311. Using  $G = 28 \text{ GPa}$ , determine the relative angle of twist of gear D relative to gear A. [\[email prote](#)