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 $2222) 2 (2 aCa L b - = - = \pi$ , where  $2 )$   
 $2 (2 \pi L C = (3.4.4)$  Substituting (3.4.4)  
into (3.4.2) we have,  $22 aCaAellp - = \pi$   
We can find the optimum solution by  $0 =$   
 $\partial \partial a A$ , by some operations leads to  $0 2$   
 $22 22 = - - = \partial \partial aC aC a A \pi$ ,  
therefore we have  $2 2 C a =$  for  $0, >ba$   
Substitute it back to (3.4.4), we have a C  
 $b == 2 2 (3.4.5)$  That means the  
optimum cross-section for elliptical  
shapes is a circle.

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(3) Two approaches are employed to find the solution. (i) Assume that the bending stress reaches the allowable allowable first and find the corresponding bending maximum bending moment.

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of Alabama. Mechanics of Aircraft structures C.T. Sun 2.2 Consider the following displacement field:  $u = y$   $v = x$   $w=0$  Sketch the

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M and torque T. If the total wall contour length (see Fig. 1.16) is fixed, find the optimum  $b/a$  ratio to achieve the most efficient section if)  $(2 b a L + = T M =$  and allowable allowable  $\tau \sigma 2 =$ .

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