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| 9-45)  A 2-in dia. steel bar is subjected to the loading indicated. Locate and **estimate the maximum shear stress** in the weld throat. |  |

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| 9-48)  The figure shows a welded steel bracket loaded by a static f**orce F**. Estimate the factor of safety if the allowable shear stress in **the weld throat is 18 kpsi**. |  |