

8-79. The joint is used to transmit a torque of $T = 2.4 \text{ kN}\cdot\text{m}$. Determine the required nominal diameter of the shaft pin A if it is made from a material having a shear failure stress of $\tau_{\text{fail}} = 150 \text{ MPa}$. Apply a factor of safety of 3 against failure.



Relevant Knowledge: The shear force developed on the shear plane of pin A can be determined by writing the moment equation of equilibrium along the x axis with reference to the free-body diagram of the shaft, Fig. a.

$$\sum M_x = 0; \quad (150)(L) - 500(2) = 0$$

$$L = 6.67 \text{ m}$$

Allowable Shear Stress

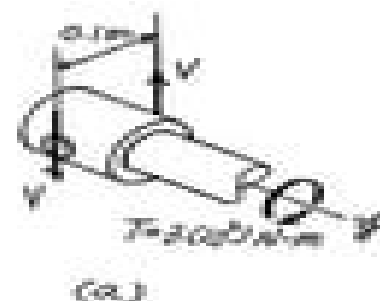
$$\tau_{\text{allow}} = \frac{\tau_{\text{fail}}}{FS} = \frac{150}{3} = 50 \text{ MPa}$$

Using this result,

$$\tau_{\text{allow}} = \frac{T}{A_s} \quad 50 \text{ MPa} = \frac{2.4 \text{ kN}\cdot\text{m}}{\frac{\pi}{4} d_s^2}$$

$$d_s = 0.02794 \text{ m} = 27.9 \text{ mm}$$

Ans.



8-80. Determine the maximum allowable torque T that can be transmitted by the joint. The shear pin A has a diameter of 25 mm, and it is made from a material having a failure shear stress of $\tau_{\text{fail}} = 150 \text{ MPa}$. Apply a factor of safety of 3 against failure.



$$\sum M_x = 0; \quad (150)(L) - T = 0$$

$$T = 150L$$

Allowable Shear Stress

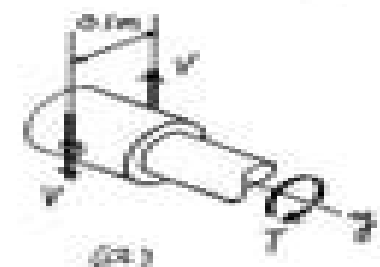
$$\tau_{\text{allow}} = \frac{\tau_{\text{fail}}}{FS} = \frac{150}{3} = 50 \text{ MPa}$$

The area of the shear plane for pin A is $A_s = \frac{\pi}{4} (0.025)^2 = 0.000491 \text{ m}^2$. Using this result,

$$\tau_{\text{allow}} = \frac{T}{A_s} \quad 50 \text{ MPa} = \frac{T}{0.000491 \text{ m}^2}$$

$$T = 2456.57 \text{ N}\cdot\text{m} = 2.46 \text{ kN}\cdot\text{m}$$

Ans.



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R. C. Hibbeler



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concepts have emotive impact that helps in learning and retention of concepts according to neuroscience and education research Incorporating educational values from history advanced topics and mechanics of materials in action or inaction without distracting the student from the central ideas and concepts is an important complementary objective of the textbook

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web apr 7 2012 base ingredients 31 whiting 24 kentucky ball clay 22 5 silica 15 oak wood ash 5 custer feldspar 2 5 dolomite add the below colorants to base glaze 8 red iron oxide 3 8 cobalt carbonate 0 25 cobalt carbonate 1 iron chromate or 0 5 red iron oxide 0 5 chromium oxide 5 copper carbonate 3 tin oxide 1 6 copper

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web ash glazes ash glazes are among the oldest glazes in the ceramics business shigaraki and bizen ceramics from japan are famous all over the world due to the wood fired kiln ash was always available in a good cleanness and amounts ash glazes in general have a very simple composition

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web ash glaze traditionally important in east asia simply made from wood or plant ash which contains potash and lime feldspathic glazes of porcelain lead glazes plain or coloured are glossy and transparent after firing which need only about 800 c 1 470 f

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web fully updated and revised with new photographs and glaze recipes this is the third edition of this classic guide to ash glazes forever curious and eager to learn new things about ceramics phil rogers constantly tinkered with clay bodies glaze formulae and approaches to firing this volume is his seminal work on transforming ash into glaze an essential

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web ash glazes are ceramic glazes made from the ash of various kinds of wood or straw they have historically been important in east asia especially chinese pottery korean pottery and japanese pottery 1 many traditionalist east asian potteries still use ash glazing and it has seen a large revival in studio pottery in the west and east

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web oct 9 2023 a glaze is the glassy surface that one sees on most pottery whether commercial or that of an individual potter artist it is one of the fundamental elements in ceramics and ash glazes in particular have long been favoured in asia

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web bradley charles birkhimer my thesis is a documentation of my research with wood ash glaze specifics of the type of wood ash used how it was prepared where it was collected and glaze formulas are discussed i have included a brief history of ash glazes and the importance through their elemental structure

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web wadding a mixture of half epk kaolin and half alumina hydrate used to elevate ceramics off of shelves during atmospheric firings wood ash the mineral byproduct of burning wood which is primarily whiting silica and metal alkaline and alkaline earth oxides wood firing the process of firing ceramics solely with wood such that the ash

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web ash glazes have been used for over 2000 years potters who stoked their long burning kilns with wood noticed that after many firings the interior kiln bricks glistened the ash from the wood was coating the bricks adhering and melting as a thin layer of glaze

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web feb 12 2003 ash glazes phil rogers university of pennsylvania press feb 12 2003 art 176 pages ash glaze as the name suggests is a glaze derived from ashes