

An Introduction To Mechanics Solutions Manual

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, and thus the torque into the page.

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With reference to the sketch, the height is $A \cos \theta$, so the frontal area is $ABC \cos \theta$. The depth is $C \sin \theta$, so the volume V is $V = (ABC \cos \theta)(C \sin \theta) = (AC \cos \theta)(BC \sin \theta) = A(B \cdot C)$ The same approach can be used starting with a different face. $V = C(A \cdot B)$ $V = B(C \cdot A)$ Note that A, B, C are arbitrary vectors.

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The solutions are $(C_y / C_x) = \sqrt{12}$ and $(C_z / C_x) = 21$, so that $C = C_x (\sqrt{12} j + 21 k)$. To evaluate C_x , apply the condition that C is a unit vector.

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