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Kleppner reflects upon his childhood as being "normal, but very happy." Daniel Kleppner lived in a family with no scientific background, with one older brother and one younger sister. He and his older brother built various objects, such as electronic devices. Kleppner also learned woodworking, which soon became his lifelong hobby. In high school, Kleppner's interest in physics was rejuvenated by an excellent teacher.

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An Introduction to Mechanics: Daniel Kleppner, Robert ...

This book provides a comprehensive, convenient and compelling introduction to the subject of mechanics, including a bit of special relativity. The level of mathematics required for reading this book is standard multi-variable calculus.

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For a long time, I don't think there was any alternative to Kleppner and Kolenkow for a student who really wanted to know the whys and wherefores of freshman mechanics. The big-selling texts like Halliday may carefully derive certain things, but in other cases they just pop an equation onto the page and expect the student to use it without ...

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An Introduction to Mechanics by Daniel Kleppner

An Introduction to Mechanics by Daniel Kleppner & Robert Kolenkow. PDF size : 14.1 Mb This is an excellent textbook for an advance high school/ undergrad who is comfortable with vector algebra/calculus. It's been used in the Berkeley Honors Intro Physics Course H7A for ages, and has done well in preparing many young physicists for hate rigorous mathematics of their following coursework.

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Daniel Kleppner - Wikipedia

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

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