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**Pasko, Brian**

**Through the looking glass: reflections and rotations in space.**

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From the introduction: This article uses concepts from a standard third-semester calculus course to allow the student to perform reflections through planes and rotations about lines in space. The approach we take uses familiar ideas such as lines and planes, the dot product of vectors, components and projections and the distance between points in space.

*Classification:* G75 I45

*Keywords:* analytic geometry; transformation geometry; congruent transformations; reflections; rotations; vectors; calculus; distance; extreme-value problems; parametric equations