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Calculation of Stationary, Free Molecular Flux Distributions in General 3D Environments JESSE LABELLO, University of Tennessee Space Institute — This article presents an application of the angular coefficient method for diffuse reflection to calculate stationary molecular flux distributions in general three dimensional environments. The method of angular coefficients is reviewed and the integration of the method into Blender, a free, open-source, 3D modeling software package, is described. Some example calculations are compared to analytical and Direct Simulation Monte Carlo (DSMC) results with excellent agreement.

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