

Errata to “Real-time Rendering of Layered Materials with Anisotropic Normal Distributions”

Tomoya Yamaguchi
Waseda University
tomoya.tomoya@akane.waseda.jp

Yusuke Tokuyoshi
AMD Japan Ltd.
yusuke.tokuyoshi@gmail.com

Tatsuya Yatagawa
The University of Tokyo
tatsy@den.t.u-tokyo.ac.jp

Shigeo Morishima
Waseda University
shigeo@waseda.jp

Equation 5 The Jacobian matrix for the transformation between halfvectors and refraction directions should be

$$\mathbf{J}_t \approx \frac{1}{\eta} \begin{bmatrix} \cos \theta_i - \eta \cos \theta_t & 0 \\ 0 & \cos \theta_i - \eta \cos \theta_t \end{bmatrix}.$$

A.1 Derivation of Jacobian Matrices The last equation should be

$$\begin{aligned} \mathbf{J}_t &\approx \frac{1}{\eta} \begin{bmatrix} \cos \theta_i - \sqrt{\cos^2 \theta_i + \eta^2 - 1} & 0 \\ 0 & \cos \theta_i - \sqrt{\cos^2 \theta_i + \eta^2 - 1} \end{bmatrix} \\ &= \frac{1}{\eta} \begin{bmatrix} \cos \theta_i - \eta \cos \theta_t & 0 \\ 0 & \cos \theta_i - \eta \cos \theta_t \end{bmatrix}. \end{aligned}$$