

$$F(cs\!pec, \, l, \, h) = cs\!pec + 2^{[(-5.55473(1 \cdot h) - 6.98316)(1 \cdot h)]}(1 - cs\!pec)$$

$$G(\alpha, \, n, \, l, \, v) = \frac{1/2}{\max[(n \cdot l)\sqrt{\alpha^2 + (1 - \alpha^2)(n \cdot v)^2} + (n \cdot v)\sqrt{\alpha^2 + (1 - \alpha^2)(n \cdot l)^2}, 1e - 6]}$$

$$D(\alpha, \, n, \, h) = \frac{\alpha^2}{\pi[(n \cdot h)^2(\alpha^2 - 1) + 1]^2}$$

$$BRDF(l, \, v, \, n, \, cs\!pec, \, \sqrt{\alpha}) = F(cs\!pec, \, l, \, h) \cdot G(\alpha, \, n, \, l, \, v) \cdot D(\alpha, \, n, \, norm(l + v))$$