

Catalan Minimal Surface

The Author

Catalan Minimal Surface Parametric Equations

$$\begin{aligned}x &= \cos(aa\pi)(u - \sin(u) \cosh(v)) + \sin(aa\pi)(v - \cos(u) \sinh(v)) - 4 \\y &= \cos(aa\pi)(1 - \cos(u) \cosh(v)) + \sin(aa\pi) \sin(u) \sinh(v) \\z &= 4 \sin(aa\pi)(\cos(u/2) \cosh(v/2) - 1) + 4 \cos(aa\pi) \sin(u/2) \sinh(v/2)\end{aligned}$$