



A



B



С



The above diagrams show how the model was made. Note how the gradient, measured tangentially, decreases as you move outwards from the axis. The diagram below shows the environment of a point in the centre of a step. Polar coordinates are used. The line  $\theta = 0$  lies along the step. The plane is horizontal and the *z* ordinate plotted vertically. As is required for a minimal surface, the principal curvatures are equal and opposite and lie in perpendicular planes, namely the vertical planes for which  $\theta = \pi/4$ ,  $3\pi/4$  respectively.



