

Figure 3: Mesh-cutting procedure for $\phi_h \in P^1$.

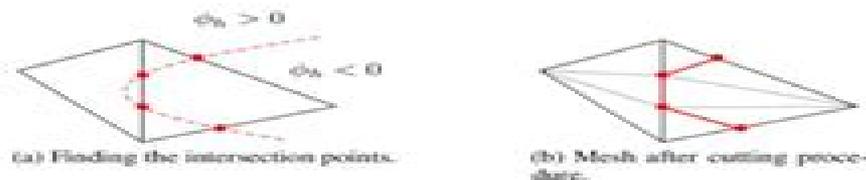


Figure 4: Mesh-cutting procedure for $\phi_h \in P^2$.

level set $\{\phi_h = 0\}$ and D_h , and it leads to a more accurate representation of the underlying smooth boundary $\{\phi = 0\}$. As illustrated in Figure 3 and Figure 4, using a P^2 interpolation instead of a P^1 interpolation for ϕ_h really seems to make a difference in terms of accuracy, even in rather simple 2D cases.

Example Let us consider a three-dimensional example in order to illustrate the influence of the interpolation degree of ϕ_h on Ω_h . The discrete computational domain D_h consists in a regular mesh of the cube $D = [0, 1]^3$ consisting in 4913 vertices, see Figure 6a. Let us define the scalar polynomial function of degree 4

$$\phi(x) := 16 \left(x - \frac{1}{2}\right)^4 + \left(y - \frac{1}{2}\right)^2 + \left(z - \frac{1}{2}\right)^2 - \frac{1}{4}.$$

In Figure 5, we have displayed the result after performing our mesh-cutting procedure in the three different cases $\phi_h \in P^1$, P^2 and P^3 . As expected, the surfaces $\{\phi_h = 0\}$ obtained when using P^2 and P^3 interpolations are smoother,



Figure 5: Domains Ω_h after cutting the mesh around the surface $\{\phi_h = 0\}$.

for a similar number of additional vertices: 3563 in the P^2 case, 3574 in the P^3 case and 3579 in the P^3 case. However, there is no significant improvement when using a cubic interpolation compared to a quadratic one.

Three Dimensional Contact Problems

Tao Wei



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