

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

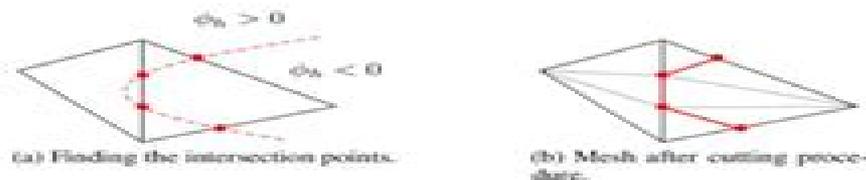


Figure 4: Mesh-cutting procedure for $\phi_h \in P^2$.

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

D Kirk



Three Dimensional Contact Problems:

Three Dimensional Contact Problems Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become much more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Three Dimensional Contact Problems**," written by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we shall delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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