1033-52-219 Edwin H Smith* (esmith@jsu.edu), MCIS Dept., Ayers Hall, Jacksonville State University, Jacksonville, AL 36265. Difficulties in the approximation of convex bodies by polytopes.

In the theory of packing or covering a Euclidean space, the approximation of convex bodies by polytopes, especially tiles, has been very important. In two dimensions, this strategy has yielded impressive results. As dimension increases, impressive difficulties arise. (Received September 11, 2007)