



FIG. 3.4. Accelerated compression using proxy surfaces. The field within a region B due to a distribution of exterior sources (left) can be decomposed into neighboring and well-separated contributions. By representing the latter via a proxy surface Γ (center), the matrix dimension to compress against for the block corresponding to B (right) can be reduced to the number of neighboring points plus a constant set of points on Γ , regardless of how many points lie beyond Γ .