Algorithm 2 Creates $[G]_{\text{sta}} \in \mathbb{R}^{m\times 3\times 3}$

```
1: procedure GSTA_ASSEMBLE
2:     #pragma omp parallel for
3:     for i := 1, m do
4:         G_elem ← 0
5:         for k := 1, 4 do
6:             for y := 1, g do
7:                 for x := 1, g do
8:                     G_elem ← G_elem + GenerateMatrixGsta(i, k, x, y)    ▷ Return 3 × 3 matrix
9:         G[i] ← G_elem
```