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MATLAB Coding of Right-Hand Side

Consider the calculation of $\tilde{\omega}_k$ in MATLAB, where

$$\tilde{\omega}_{i,j} = h^2 e^{2\xi_i} \omega_{i,j},$$

the dimension of ω is n -by- m , and we have applied natural ordering to map $(i, j) \rightarrow k = i + (j - 1)n$.

Map the mathematical variables above into the following MATLAB variables: *omega_tilde*, *h*, *xi*, *omega*, *n*, *m*. Write the MATLAB code that computes the nm sized vector *omega_tilde* given that all the other variables have previously been defined.

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