**Gibbs Sampling Simulation Procedure**

1. Generate white noise with mean and variance .
2. Perform Gibbs sampling using Eq. (5) via image coding.
3. After a burn-in period of 3 iterations, estimate the parameters of the simulated image using least-squares at each iteration.
4. Stop when the least-squares parameters converge below a pre-set tolerance on the standard deviation between steps (5%) or when the maximum number of iterations is reached (5).