

• 涉及 z_k , 同时保持 z_{-k} 不变,

$$\text{并且 } g_k(z^*|z) = p(z_k^*|z_{-k}).$$

$z_{-k}^* = z_{-k}$, 因为采样步骤, 向量其他元素不变,

$$\text{并且 } p(z) = p(z_k|z_{-k})p(z_{-k}).$$

接受概率:

$$A(z^*, z) = \frac{p(z^*)g_k(z|z^*)}{p(z)g_k(z^*|z)} = \frac{p(z_k^*|z_k^*)p(z_{-k}^*)p(z_k|z_k^*)}{p(z_k|z_{-k})p(z_{-k})p(z_k^*|z_{-k})} = 1.$$

全部样本被接受



