

$$\tilde{\mathbf{X}} = \underbrace{\boxed{\mathbf{K}}}_{\$li} \underbrace{\boxed{\mathbf{\Lambda}^{\frac{1}{2}}} \boxed{\mathbf{A}^T}}_{(\$c1)^T} = \underbrace{\boxed{\mathbf{K}}}_{\$l1} \underbrace{\boxed{\mathbf{\Lambda}^{\frac{1}{2}}} \boxed{\mathbf{A}^T}}_{(\$co)^T}$$