$\label{eq:linear_state} $\\text{A}^{intercal}: \mathbf{A}^{i} $\\text{c}^{c}^{intercal} \operatorname{textbf}_{x}: \mathbf{c}^{\tau}x $\c^T x$: c^T x$ $\c^T x$: c^T x$ $\textbf_{M}^{intercal}: \mathbf{M}^{\tau}$$