$$\begin{split} &p(t)^{\top}B(t)+b_{v}(t)^{\top}=0\\ &\dot{p}(t)=-A(t)^{\top}p(t)-a_{z}(t)\\ &\dot{z}(t)=A(t)z(t)+B(t)v(t), \end{split}$$

$$\begin{vmatrix}\dot{z}(t)\\\dot{z}(t)\end{vmatrix}=A(t)z(t)+B(t)v(t), \\ \begin{vmatrix}\dot{z}(t)\\\dot{z}(t)\end{vmatrix}=A(t)z(t)+B(t)v(t), \\ \begin{vmatrix}\dot{z}(t)\\\dot{z}(t)\end{vmatrix}=A(t)z(t)+B(t)v(t), \\ \begin{vmatrix}\dot{z}(t)\\\dot{z}(t)\end{vmatrix}+A(t)z(t)+A(t)z(t)+A(t)z(t), \\ \begin{vmatrix}\dot{z}(t)\\\dot{z}(t)\end{vmatrix}+A(t)z(t)+$$

Armijo Line Search



