```
(1)
Robust LQR state-feed back control: 12(+) = (A+1A) 2(+) + (B+1B) u(+)
 where IA = EXH1, AB = EXH2, u(t) = Ku(t)
=> ie(t) = (A + EXH) ve(t), where A = A + BK, H= H1 + H2K
We have V(t) + reare(t) + with Ru(t) < 0, where V(t) = ro(t) Pre(t)
   in(t) P x(t) + x(t) P x(t) + x(t) Q x(t) + x(t) K T K x(t) < 0
   r(t) (A + EXH) P + P(A + EXH) + Q + KTRK re(t) < 0
  1 P>0

[He{P(A+EXH)}+Q+KTRK<0
                                                    Chung Quang Khanh
=> Hegpay + HegpE8Ff + Q+ KTRK <0
                                                    Example 4.1
                  < EPEETP + ETHT 8T8H = EPEEP + ETH H
> HETPAT + EPEEP + ETHTH + Q + KRK<0
                        -HT(-E=)H
=> [HelpA] + EPEETP + Q + KTRK! HT] <0
H
\Rightarrow) \begin{bmatrix} P^{-1} & 0 \\ 0 & I \end{bmatrix} \begin{bmatrix} P^{-1} & 0 \\ 0 & I \end{bmatrix} 
=> [He\AP^1] + EEET + P^1QP^1 + P^KTRKP^1 PH] < 0
Define |\overline{K} = KP^{-1}/, \overline{P} = P^{-1}
  (A+BK)P1 = AP1 + BKP1 = AP + BK
     (>HP-1 = (H1+H2K)P1 = H1P+H2K
```