nfluence(effect,impact) difference(distinction,gap) communicate(exchange,associate) haveaccessto(makecontactwith,keepintouchwith) givepriorityto(put...intofirstplace) economize(conserve,cherish) participatein(takepartin,engagein) measure(step,action) ambitions. Bgrewino. aspirant We have: mf[fux) + LRP(g(x))]= sup inf 1 (x, p) $\bigcirc \exists \phi^* \text{ s.t. } \text{ orf } \mathcal{L}(x, \phi^*) = \sup_{\phi} \inf_{\chi} \mathcal{L}(x, \phi)$ 3 if x* is a solution of the primal problem, then (x*, p*) is a saddle point of I we introduce the value function V(4) = mff(x) + CRE (g(x)-y) V(0) = inff(x) + CIRP(g(x)): Primal pls. V*(\$) = sup (<\$, y> - v(y)) = sup[(\$\darkappa, y) - inf(fix) + Crep (gix)-y))] = sup[<p,y>+ sup(-fix)- CRP(g(x)-y>)] = sup sup [< \psi, y> - \fix) - CRP (g(x)-y)] = supsup[...] = sup sup [[+; y = -CR_ (g; (x)-y;)] - f(x)) = sup (\(\sup (\phi; yi - Ca_(q; w)-yi)) - fw) (\(\tau) \) $\phi_j \leq 0$ $2^{\circ}\phi_j > 0$ 10 0; 50 $(*) = \sup_{x} \left(\sum_{i} \phi_{i} g_{i}(x) + C_{R_{-}}(\phi_{i}) \right) - f(x) \right]$ = -inf[fx) - < +, g(x) > - CR= (+)] $=-\inf \int (-\phi) := -D(-\phi)$ Desidual function

KOKLY

