866054 6576 Cower ophimiahea «HW6 » 1 Vargueress of Payleckin if CER's many & , closed, Comea norm had -strictly --- > polity with acc - obsest to In section, 8.1 of the book, we can see the enterior of projection being unique a some special cuses. _ haray (1) norm I.il strelly convex Dots - nGC >> pojection -> 11 n-Koll on hunty CA having 2 different distance Companyon and flux soll حلقل فاعلم ووالترباك run empty => norm => £ (x1x) &C; havry 11, x &C

conver -> because we have convexity and obsed form => 11 美(ArA) -4011, 11 光·(K·N)+(包)(A-1) < 114(N-80)11 + 1152 (A-80)11 Ciliare 1 1 Po 142Po = Po => Po>Po :X: => [Projection in these conditions is unique]

Maximum volume rectangle inside a polyhedron R= {uBR" | C < n xi Ps fa laxby Parameters are: Lou ER" de po n (u; -(i)) [Ax \b - Av \b m 12" - Calo dolo is الم المبت هندس لول الني المرح قبرل بنة ١ lo racités / Poly le dron max logIVI - gives max log[\(\tau\) (ui-li)\(\tau\) = max \(\tau\) As (att air صفایم سیری عجم اردالت بالیم عد اگر نوه میت دلی دن ی و در علی ر RERA (CKU KU BUNAN (b => \(\langle (ai) uj - ai) (j) (bi , (.1), , m الم في متى بود E (max { wj,of. uj - max { - ajj, of G) { bi } > / man \(\frac{1}{5.t.} \) log (ui-li) 1 5. £. £ [max {aij 20 { cg - max { -aij 20 { cg } } } \ bi 14°= 24° | max (\(\pi \) (\(\ai - \ci \)) |
| \(s.t. \) \(s.t. \) ((aijð ai) - (aijb) () (bi

Fears -Prob (aj -ak+v>0) aj & [0,1] N-> symmetric random variable 1,-,n $\rho(v) = \frac{26^{-1}}{(e^{+} + e^{-1/6})^2}$ CDF => Fet) = ft par) dv = 4/6 Jobs m ~ (i), (i), (ii) , i=1,-,m, -> feams); $g_{j=1}^{(i)} \rightarrow j^{(i)} \omega on$ find solution of this problem as a find plasimum like titad game incidence فرنان منتابر فإنى بعدى ستوهت prob (aj okyv) s 1 - F (aj-ah) = 1- $\frac{1}{5} \frac{Ai.\hat{a}}{6} - \frac{1}{6} \left[\frac{Ai.\hat{a}}{6} + \frac{Ai.\hat{a}}{6} \right]$ s> Ail.â -> aj-ak 5.t. مرهد معادر مراد PDF - > /2 / 04. اوی مروزی از بردار

(a) then the zer is goods langer in dis case: den rei so comen ter met men (1) 0 - A(a,1) = & (1+1) oc मां पर छेला त्र विक्र केर में में हर महेर में हिंदी कि לעביה זמוכן ונוה טעל I se panel comed els l'éves ورفان الليسى هوس عمل نستان ، المرتوم المرتومة . al gars liner on quest conver cash flows -> we Rnit is in-sk (b) Let w6 Rx, 1 w sh n=w/n 1-+when show [RR (n)) grasi comed

Juasi comed 1

Sor Osla 1(1-0)4) & max (fine, fin)

Sor Osla IRR (n+01) & max (TRR (n), TRR (4-0))

[DC(1) Ghr. 87

6 Planing production with certain demand n, ..., rm - amounts of Ais anils of raw muterial (i) 91,--,9n - quantities of | [r], Ag' -> cTr -> total raw material n different | Ajj7/9 CER+ cost dj -> demand for material (3) dj-gj - unment demand 5) = mindqj, dj { 5.1d Rom PTS; PERI Product prices (a) $P^{T}S - cTr \longrightarrow Profit$; $A, C_{2}P \longrightarrow know M$ $d, --, d \longleftrightarrow \pi_{1}, --, \pi_{k} \longrightarrow I^{T}\pi = 1, \pi_{k}P$ D cost => variable => Elprolites Elps-cre = Elpronidosf-cre rahead of lime, q after disknown objective is to muximize the expected profit. ation (>> Et profile & T (pt. min 1 8', gif) - ct hnown

components $\rightarrow \omega = (\omega_1, -, \omega_n)$ win { wi { when , is1,-, n 1 - circuit power : P(w) 2- the circuit delay & Dow) know a set of k designs (4) not convex but, if que) = (egf(w); 3 - total circuit Area : A(w) $\omega^{(1)}, -, \omega^{(k)} GR^n \longrightarrow P(\omega^{(j)}), D(\omega^{(j)}), A(\omega^{(j)}), J^{*}J_{*-jk}$ (4) $(1) \log P(\omega)$, $(1) \log P(e^{2k})$ $(2) \log P(e^{2k})$ $(3) \log P(e^{2k})$ $(4) \log P(e^$ Jonsen's Inequalities for & i of f(woi) fersible for set of the set of th (b) بىتى ئىدار ئىلى ئىدار ئىلى >> 0 51, 4 - (see a) 3 I o: (g (A (en)) & (og Aspec w - /5/01/01/1 Q 1 8,1 ; OTP مان کالود می ایرکی ک Disco (L feasible) Lo Gusses

(C) →in matlab