Orthologoram + mp = & proll de getieses in aila DII"=112 42"=0,2 min 2 = 2 d x e? in u + ep mut roll option et pl 1) (Nonation 2) . ((X*) T (C-AT W+) =0, (m+)T(Ax+-l)=00x=(Cj-AbT, m+)=0 Elog(AiTx+-li)=0x=(Cj-AbT, m+)=0 =) {x**} v**=0 + j=1, m + j=1, m 1×1 1×1 ×1 = = = (2 1 2) x, 1x2, x, 20 L=(4) Mi wit = 0 + 1 = 1 m 1 + 1 = 1 m x3=81=(12)(B)=(-8+10) · ca ra Lie adminibila Min == 20+20×2 (Min == 20×1+20×2 => x -8 ≥0=> (-8 +10) ≥ 0 =) =) x 1+2x2-W1=1 ×1+2×221/41 2×1+47-12=2 2×11×222/me 5-8+1020=) 37510=78615,10 2×1+3×223/45 2 x 1 + 3 x 2 - 12/3=3 1 3 -5 20 3×4+2×225/45 . testal de aprim Y= BA= (-12)(3 12)=(5 1 0) Rualo Max MA + 2 M2 + 3 M3 + 5M5 (Mex us+ 2M2 + 3M3+ 5M5 CT=(2,5) N CT.Y- =? 2m1+2m2+3m2+3m552000)2m1+2m2+3m3+2m5+4200 (25)(5 10)-(x25)=(525)-2m++ 42+3m3+2m5 = 20/m1, 42, 43, 4520 (x 25)=(5-a 0 0) reloptina M1, M2, M3, M5 20 5-x ≤0 = 1 a 25 pt a 25, Be (5,10) Tolaha a se xx, int not optime X=(0,-3+10,3-5)7 Cxx. vi =0 (uz wz =0 (2) inf x x 1 + x 2 + 5 x 3 3 = (1 2) x2+ v, +=0) m3 m3 =0 (2×1+×2+2×3=1 11 wit = 0 1 us wit =0 [B×1+×2+×3=5 B=(-1 2) 112 V7 = 0 =>V7=0 ×1,×2,×20 Y=BA=[1-12](212) 0,2 12 =0 => 1/2 =0 ルナロら=ロコルナ=ロ €3. Y-C=(1 5)(-2+28 1 0)-(21 5)= いさ の、日一〇コルガニの M\$.0=0 -1-2+2B+3-59 15)-(215) uto=0 W/= x/+2x/2-1=0,670 wit = 2x + +x = -2 = 0,6 >0 an rol optin knowit W3 = 2 ×1 × +3×2 × -3=0 elem de je col 1 met alg W5 = 3 x + 2 x 2 - 5 =0 3 Earkon El A E R " " L. FR " Aturi door o rolutis: Pl ? deprine: [0+0+2 v; +3 v; +0 =20 a) 7 XER" as Ax=l , x 20 (0+0+3v3+2vx+0=20 h) = wer as ATUZO, L'M <0 5 203 + 305 = 20 Ex : talourd lema lui tarkon, aratati ca 1 303 +205 = 20 U3 = U3 = S =) 2 = 0 + 0+7.545.5 = 28>0 resternal (1 2 3) (4) = (5) m are ral

1 5 1 5 (2) = (5) m are ral

2 10 × 19,2 20 u+=(0,0,5,5) rol optima pt 2 Sal: a) mare rol = 1 1 4 4 20 are rol 1341+54720 (5 2) (mg) < 0 (5 mg + 2 mg < 0

14 not activate = first (mgn) = fixt) luis en eal at unde n EB

exte det articl:

3 3 1 1 20 -02-1-1/5/=13-5/ I' Ja & O. Inlocum col. ra · administr (=) (-8+10)20=) x-820=)(-8+10)20=) sutto a dualitation anomica Smin 4: - x3. 1: xix >0

runda and forma anomica Smin 4: 4 th that

inf cTx Eie 8 matrices obtinuta dura informain cal. 12 [B+1020] \$\$510= BE15,10] in B, ature: a) & este ince ni prind administra , an elem · total de optin (b) fal de bara coresp basei B este , mai leura . X20 X=B-A=(-12)/212/= ala ventra 1) decât rol de bora coven. B =free "(Ax = b, x = 0) milt. rol. odnis. ! | R(x 3, 0) < f(x 3, 0), wide = {MER = 1A - MEC, MZO} -11-6) X(x)=C-TK. C# = (2,1) N Cp. Y-C=? D'Lenra rubititutili RAH= {x \in R | a x = b } - remislan (25)(5 10)-(x25)= Eie B=(A', A2. An) a metrice in R= S= fx ern 1 aTx ly inv de dim. m vi B-1. Eil B \$ 25)-[a25]=(5-x00) natricea delinità prin interiore col. 2. a his & en vectoral A six=8-14, edru în la interactie de remigetii rol optina etini: a) & sets inv @ yn =0 5-a <0=) x Z 5 pt a Z 5, 7 B ∈ (5, 10), x = (0, -8 + 10, 7 - 5)7 "IAX EL), DER "X" LER" 6)3-1= Er (7)3-1, unde Er (7) R" | ajx & bi, i = 1, m) a; = livia i din A este natrice unitate de ord m uni polista in care cal r este infocuita cu on must setural al solidadio Palaca (Er) Earkon en ment letome $x_1, x_2 \neq x_1, x_4 + x_5 \in P$, $x \in [0, 1]$ a $[x_1, x_2 \neq x_1, x_4 + x_5 \in P]$, $x \in [0, 1]$ and $x \in [0,$ Edonid lena lui Earlas, aratati ca (1 23) (4)=(5) a) me er rol=> {ATu >0 are @ Qualitate in optimizer lineara nie lornata au coloanele linior indep (1 3) (M1) 20 Su1+30220 W 3 5) (M2) => Su1+5M220 W Nink CTX 2) rup bTu A in B a? x = (8 b, 0) Bara le on A×≥b ATMEC minhite & B'h > O. Unei base & prince in coresponde x rol. adm. de bosó. (5 2) (m, m2) (0 | 5 m, +2 m2 < 0 2 A ERMXM C, XERM, L, MERM Ax=b, x20. xorte o rel de boxa & 1.2) pl. duale rule forma casonica trice formata en caloanek liniar inden. WELLEP, MED=)cx2l'a P= {xermlax=b, x=0} i A in 8 a 1 x 3 = (8 b, 0). Ban b Den Ax 2 b/ m Azzule lu ecte dual administration (3) 3 A-C'50 D= fuerm/ATUEC, u=0} administra de bora x ZO / DXT DTUSXTC= CTX () 1) inf cTx 2) my lith . not adm de lag a probl. de optimine s XEP WED on A = n, unde is este lornal din livil 12 Th valo a scartivilor complementer 1,20 bu = Cx = fir... ie) = AT = [ata] {CTX AXCh tie ple de optimicare & ri 2 din 11 @ dois x* EP, 11 * EP as Good necessia si suficientà ca x * EP CTX+=lTn+= rul de aptim (tertul de aptim) ni u* ED va file rol out pt. x* exterol option at 5) basa prinal administra Dasa 2-Cjso, nb. 1,2 9th ca: ture grale + (de minimines) are rol optime x* este rel contino at 6 (x*)T(C-ATU+)=0 (8 %, 0) unde = = (787) = (78 aj 1) ER sten MRA By an X mus sol of Don CTX+ & LTX Servely

Street inform eliquele luis

Learn A 221 April 10 AT MEC (4*) T(Ax*-b) = 0 3 Ema lu Earens base princl administra problems 1. There as 28-C4 > 0 m y = 5 1 2 50. ELACRONEN LERON CER Atmi una dintre nolitile: +17x620 27 AX=L;XXO LIBURR OF ETUBO: 5TUCS or, probled are option infinit.