

- As Valuable solvent; 
$$x_{4}$$
- Le Valuable solvent;  $x_{5}$ .

 $x_{4} = 3 + \frac{x_{5}}{2} - \frac{2x_{5}}{2}$ .

 $x_{4} = 3 + \frac{x_{5}}{2} - \frac{2x_{5}}{2}$ .

 $x_{4} = 4 - (3 + \frac{2}{2}x_{3} - \frac{2x_{5}}{2}) = 1 - \frac{x_{5}}{2} + \frac{x_{5}}{2}$ .

 $x_{5} = 15 + 4(3 + \frac{x_{5}}{2} - \frac{2x_{5}}{2}) - 5x_{3} = 1 + \frac{x_{5}}{2} + \frac{x_{5}}{2}$ .

 $x_{7} = 3 + \frac{x_{7}}{2}x_{3} - \frac{x_{7}}{2}x_{5}$ .

 $x_{1} = 3 - x_{3}$ .

 $x_{1} = 3 + \frac{x_{1}}{2}x_{3} - \frac{x_{2}}{2}x_{5}$ .

 $x_{2} = 3 - x_{3}$ .

 $x_{3} = 1 + \frac{x_{1}}{2}x_{3} - \frac{x_{2}}{2}x_{5}$ .

Solution de Bese :  $x_{3} = 0 = x_{5}$ .

 $x_{4} = 3 + \frac{x_{2}}{2}x_{5}$ .

Solution de Bese :  $x_{3} = 0 = x_{5}$ .

 $x_{4} = 3 + \frac{x_{2}}{2}x_{5}$ .

Optimale:  $x_{2} = 2x_{5}$ .

Optimale:  $x_{3} = 0 = x_{5}$ .

 $x_{4} = 3 + \frac{x_{2}}{2}x_{5}$ .

Optimale:  $x_{4} = 3 + \frac{x_{2}}{2}x_{5}$ .

 $x_{5} = 2x_{5}$ .

Optimale:  $x_{5} = 2x_{5}$ .

 $x_{7} = 3 + \frac{x_{5}}{2}x_{5}$ .

 $x_{8} = 3 + \frac{x_{5}}{2}x_{5}$ .

 $x_{1} = 3 + \frac{x_{5}}{2}x_{5}$ .

 $x_{2} = 3 + \frac{x_{5}}{2}x_{5}$ .

 $x_{3} = 0 + x_{5}$ .

 $x_{4} = 3 + \frac{x_{5}}{2}x_{5}$ .

 $x_{5} = 2x_{5}$ .

 $x_{1} = 3 + \frac{x_{5}}{2}x_{5}$ .

 $x_{2} = 3 + \frac{x_{5}}{2}x_{5}$ .

 $x_{3} = 3 + \frac{x_{5}}{2}x_{5}$ .

 $x_{4} = 3 + \frac{x_{5}}{2}x_{5}$ .

 $x_{5} = 3 + \frac{x_{5}}{2}x_{5}$ .

 $x_{7} = 3 + \frac{x_{5}}{2}x$ 

9-22,20

x4 Voriable sortante.

as = 3-2 ns - as.

7 = 42, +5 mg.

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2,54,5.

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 $(D_z)$  $\alpha_3 = 4 - \alpha_4$ Variable entrout: 12. 23 = 3 - n2. Variable sortout: as n2 = 1 + 2 ol 5 - 05. x5=1 - x2+2m4-Z = 16 + 5 22 - 424 (7 = 16)  $(D_3)$ Z = 21 + 6 x4 - 5 x5. Vor autronte : xy. Var sollant: x3.  $n_4 = 1 - \frac{1}{2} \alpha_3 + \frac{1}{2} \alpha_5$ (D4)  $\chi_{1} = 3 + \frac{1}{2} \chi_{3} - \frac{1}{2} \chi_{5}$  $\alpha l_1 = 3$ ,  $\alpha_2 = 3$ .  $\alpha_2 = 3 - \alpha_3.$ のしょえものしるこのこのしょ 24 = 1 - 1 2 23 + 2 25. 7=27 optimal. E=27-3013-2015. [3] - Règle de Bland revient a foir la methode 2 (cor a Rettr' (D1) on a me seul variable entrante. x2+lag-a = (4 (a3). Exol Cx1: max ne + 3as - az- 2,- 20 < - 3 (n) (12+2 an 64 - a2+a1-a. 6-1 (a5) -x2-n25-3 - de + a1 < - 1  $\alpha_0, \alpha_1, \alpha_2 \geq 0.$ (.as, x1 20

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23=4-12-2ax+20. ay = - 3 + x 2 + 1 12 + x 0 0 25 = - 1 + 1/2 - 02 + 010 Vor entrout: xo. Var sortant: x4 (le plus negative) 120=3-d2-d1+x4.  $(DA_2)$ No= 3- de-n2+d4. 3-2, 20. 23=7-222-3a,+24. 7.304 30 25 = 2 - · 221 + 24. 2-20,20 m = -3+ 22+ 21-24 Vor entrant : xx. Vos sottout :- 25.  $\chi_1 = 1 + \frac{1}{2} \chi_4 = \frac{1}{2} \chi_5$  $(DA_3)$ No = 2 - a2 + 1/2 n4 + 1/2 a5 . (2-a2 > 0.  $d_1 = 1$  +  $\frac{1}{2}$   $a_4 - \frac{1}{2}$   $a_5 = 1 + 0$   $a_2 \ge 0$ . ag = 4 - 2 a2 - 1 24 + 3 15 4-2 a2 ≥ 0. W = 2 + a2 - 2 24 - 2 25 Vor exatrant of e. Vor settout xo.

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TO 2: 
$$0.00$$
 / Suite.

(DA4)

 $x_1 = 1$ 
 $x_2 = 2$ 
 $x_3 = 2$ 
 $x_4 = 2$ 
 $x_4 = 2$ 
 $x_4 = 2$ 
 $x_5 = 2$ 
 $x_5 = 2$ 
 $x_6 = 2$ 
 $x$