1 Pokefohvi himpunum B dengan trga broch riloi {0,1,2} In In bush operator + In. tastah operasi dergar operator + In . l'ofestres par par labor 41012 a. Pari les y assiona dosar (Forutatif, dispributif, 1 Scriftag, for pumplemen). Atsioma manakah yang typeruly Oleh pedua fabel fratas? . Aparkah oremen ilensitas unfor massing operator + fan . ? James 1 L Comutation (+) jun atb=b+a · 0+1 = 0 dar (+0=0 * Memeruki (forwtaff F) · 0+2 = 0 Lan 2+0 = 0 1/2= 1 Lar 2+1 >1 () jan a-6=6-a -0-12 | dea 1.0=1 * Memeruhi (komutatte) · 0 · 2 = 2 Lan 2 · 0 = 2 · 1 · 2 = 2 day 2 · 1 = 2



Z. Distributif

a. (b+c) = (a.b) + (a.c)

Contoh 1: a-1/6 . 1. C 22

hturg 6+c = 1+2 =1

htung a (btc) = 1-1=1

Liting (a.b) + (a.a) = (1.1)+(1.2)

* a. (b+c) = (a.b) + (a.c)=1

Conton 2: a=2, b=1, C=2

hing b tc = 1+2 = 1

htmy a. (btc) = 2-1 = 2

hiring (a.b) + (a.c) = (2.1) + (2.2) = 2+2=2

* a. (b+c) = (a.b) + (a.c) = 2

Seferah cek kumbmasi pedna tober memenuhi aksioma distributtp.

3. Ventitas

- Operation(+)

. 0+0=0

11+020

· 2+0= 0

It elemen until operator t aluah O, farem of d > a until semia

a 6 0

a EB



- Operator (.) * Gener Hentitas until sperasi . . 0 - 1 = 0 11.121 adular 1 - favora a-1 = a work Serva a &B -2-1 = 2 y bomplemen Untik operas: mi frak tapos menconspan komplemen yarg porsisten longi setrap elemen , parera filaciata elemen young memerity persyanatas fastra operasi t dan. b. Sparah Computar B dengan tra levan operator tratas membertik alpubar boosean? Jelaskan pawaban anda! · formulation: felia operas; beastrap knowfafts " Pistribution Felia operas: Memerchi sifat distribution · Unitarias = Operasi + Jan · masony - gracing memphisi identifas O Jan · pemplessen = Tilak ala komplemen yang konsisten * karen humpuran B meneruhi akstoma kumutatik, distribution, Lan itentitas, tetapi tidale Memeruh approma komplemen. Maka himpuran B titak membertus apaber boolean



Nyotakan F (a,b,c) = ((ab)'c) ((a'+c)(b+c)) don benfus bow Sop don benfus favoris Sop · Scherbaratan ((ab) () - Bertoserben atura a tempogan. (ab) = a + b1 - [a'+b') (pomponen Levi (a'+b'). C alalah pa'th') +c r forta tapat overyeder haraban megadi a. C + b-C * ((ab) () = ab + c · Seserharakan ((a'+c)(b'+c') - Manuel aturan temporgan, sumponen clark (a'tc) (t'tc') asolah (a'tc) + (btc) dapat mengelerkanatan rengasi a. C'+b.c * (a'tc) (b'tc') = a.c + b.c · Gabrig par fastin bagran f(a,b,c)= (abfc'). (a. C+b.c) · Bentok but Sop Drembrestan (ac + c') tergen (a.c'+ 6-c) + (ast.c). (ab.a.c) + (ab-b.c) + (c-a.c) + (c.b.c)



- Selenharatan trap supu · ab .. a . e' = ab . c ab. b. c = ab . c · c · a · c = a · c ! - e' . b - c - b - c · c' of the beneul back sop don't flat, c) almans F(a,b,c) = ab.c+ ab.e+ a.c' · Bentus Favorik SOP 1. ab. C dolar bertik menterra adalah a=1, b=1, C=0 york = ab.c' = m6 = 16c 2. a. by Lolan benton mintern adulah asi, 6= p dan C=1. yoir > ab. C = M7= abc 3 a-c' Lalam bentre mintern abulah a=1, b=B, e=B yerru= a.c = ny = ab'c1 * Bene kanonik SOP & (a, bc) adulah f (a, b, c) = my + m6 + m7 ator bentuk ekspresinga f(a,b,c) = ab'c + abc' + abc



6. Cartan templemen dari surgel p (w,x,y,z) =x2+wxy1+wyz+wxy P(W, x,y,2) * x 2 + w xy + wyz + w xy temporen dari f (W, x, y, 2) addan f (w, xxy, 2) Longer apran femorgan F = x 2+w'xy'+ wyz +w'xy) Menrut arman femorgan with meneal komporan don't selvan elspresi, tita hans morgiban prompha. menjali perkahan Schryga: F(x'z)'. (w'xy'). (wyz)'. (w'xy)' - Cort benampuan Lari trap sylv · (x'z)= x+21 · (w xy) z w ty ty · (wyz) = w + y + z - (w'xy) = w +x+y F(w,x,y,z)=(x+z)'·(w+x'4y)·(w'+y'+z')·(w+x+y') * Dika templemen dari progsi f (Vixiy, 2) = x 2+ w xy + w x Z + w xy. a buch F'(w,x,y,z) = (x+2'). (w+x'+y). (w'+y+z')

