李教兴 Transshipment Problem - Site selection 4 costs we need to compute (minimize) here 1) Transportation rost from wave housensto demandis 2) Transportation ost from supplys to wave haven 3) Transportation cost from demandisto supply(5) 4) (of of operation of the work house (5) Warehouse demand A: 4(W,D,) + 6(W,D) B: 3(WBD1) + 4 (WDD2) B= C: 50 WCD) + 3(WD) warehouse Supply 1: 1(S, WA) + 2(S, WB) + 8(S, WE) 3) (b) @: 6(S2W4)+3(S2WB)+1(S2WL) Demand Supply D: 4(S1D1) + 8(S1D2) ->(1) (2): 7(52P1) + 6(52P2) (2) Constraint Wavehouse operand: 1) Sy must not exceed 50 A: 50 2) & must not exceed 75 B:60 3) of most exceed 75 C:68 4) Oz must exceed 50 5) WB must not exceed bo 7) Allware have contisend more 6) We must not exceed 70 than it receives. Together we get -

Mig W4 (50 +151 W4 + 652 W4 + 4W4 d1 + 6 W4 d2) +

W8 (60 + 251 W8 + 352 W8 + 3 W8 d1 + 4 W8 d2) +

W6 (68 + 851 W6 + 152 W6 + 5 W6 d1 + 3 W6 d2) + 45,d, + 85,d2 + 752d, + 652d2 Such that WATWOTHE & 1 Where WI, WZIW, are binary S1W4+51WB+51WC+5, d1 5, A2 < 50 52 WA +52 WB + S2 WC +520, +5202 < 75 WA d, tWBd, +Wcd1 + S, d, + S2d1 > 75 W+d2+WBd2+Wed2+S,d2+S2d2>,50 STWA + SZWA < 90999 WA - no limit capacity SIWB + SZWB & 60 WB SING + SZWC = 70 WC WA d1 + WA d2 & S1 W4 + S2 WA WBd1 + WBd2 & SIWB + S2WB Wed, + Wedz < SIWe + SZW,