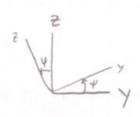


W= 1500 / pm d = 0.2 rad/s p = 90° 4-60° 4= -0.3 md/s

FIND ANG. VEL & ANG. ACCEL. IN TERMS OF INERTIAL COORDINATER (X 42).



W = WB/ = WB + WD

F=-sin4 J + cos4 R

Wo = YÎ

WB = WR = -Wsin Y J + wcos Y R

W= (4)Î-wsin4Ĵ+wcos4K

₩= -0.3Î-136.035Ĵ+78,5398Ê rads +

= w = (w) red + w France x w W France = 0

= A- (with + wycos 4) J+ (wos 4-wysmy) R

~ = 23,5619 Ĵ + 40,8105 k rad/s² ←

2) W2 = 5000 rpm

W, = 3rad/c

in = -1.8 rad/s2

9=75"

0 = 0 rotals 0 = 3 md/52

FLO THE ACERL IN TERMS OF X, Y, Z,

W = WOG + WIG + WEW

₩ = W, E,

DIG = -01.

12 = cos OT, + sin OF,

WFW = Wz 2z = Wz cos6 2, + wz sin 6 E,

= (w, +w3 coco) ?, - 67, +w35, NOF,

₩ = 138,5173 2, + 505.7576 €,

