

SNS COLLEGE OF TECHNOLOGY (An Autonomous Institution) COIMBATORE-641 035, TAMIL NADU



tom & m = tom & m = \$ shall swal go de 4 rabinos Angle of respose = angle of statie fericlim. Body on rough inclined plane of the items of the @ What should be the value of the angle 0 so that motions of 390N block impends down the plane? . The coefficient of furchion 4 = 1/3 919108 £ 6/199 100051 + 950 1055 = EBD of Corner FBO of upper block To lemmin of cable (0200 0 12 + 0101021) 1 = 0 M2 0 PE Resolving forces along place (0200000) 2 = anisope T-130 smo- F1 = 0 3181 Fd. 210 = aus cope T-130 smo - MNI = 0 Fd dis Resolving the force normal to place mot = 0 solving the 1 120 core = Dr mont find pier A stands hand where the (120 coso) 2 + 6m2061 at home all hail 1800 mo + 43.33 cos o -> 3 evolg saturation down



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is what should be the water of

consider FBD of lower block

Resolving forces along place where suggest pulper

F1+ F2 - 290 sme = 0 month british world

FIT F2 = 390 sind

MN1+ UN2 = 3905in0

390 sma = /3 (130000+ N2) - 4

Resolving forces normal to plane

M2-N1 - 390000 = 0

N2 = 3900000 + M/

M2 = 300000 + 130000 = 520000

Sub N2 in cgn (4)

390 sma = 13 (130 coso + 520 coso) 110 p menos -T

3905ino = 13 (650 coso) 30/9 grala 2000}

390 mis = 216.67 coso = 17 -0002001-T

N=temp = 216.67/390 MM - 9WE OE1 -T

0 = tom (216.67) = 29 misces1-7