

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



F. S. Hell = J. + St. E.

Normal reaction NR = WOOR

Frichmal force F = MNR D doubt to all solvers?

- Muchan when y cosd > Wainar - Block is at rest MM cosa Mains, the simpending downwards.

Molion takes place.

When the angle of plane with horizontal or, is increased, NSINA WIN be more than MW+CD FX and sliding takes place

> "The angle of the inclined plane at which the body lends to stide down Known as angle of repose. denoted by am. N= 123 = 'N

M Wasam Z Wsinam

M Wooden & = Wainam

M. Mcos Km → D



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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