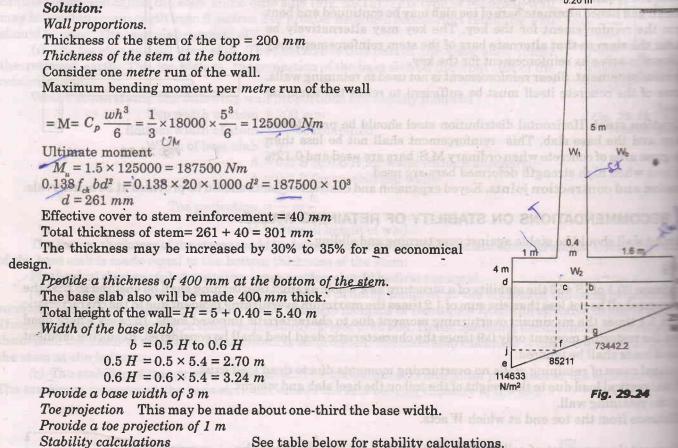
DESIGN OF REINFORCED CONCRE

Design. 29.1. Design a reinforced concrete contilever type retaining wall having a 5 m tall stem. The was soil level with its top. The soil weighs 18000 N/m³ and has an angle of repose of 30°. The safe bearing capacity a is 200 kN/m² Use M 20 concrete and Fe 415 steel.



Magnitude of the load (N)	Distance from a (m)	Moment abou a (Nm)
25000	1.7	42500
12500	28 15	23333.33
30000	1.5	45000
144000	0.8	115200
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211500	Dard light pland	383497.33
	of the load (N) 25000 12500 30000 144000	of the load (N) from a (m) 25000 1.7 12500 $\frac{28}{15}$ 30000 1.5 144000 0.8

Distance of the point of application of the resultant force from the heel end a,

$$= Z = \frac{383497.33}{211500} = 1.813 \ m$$

:. Eccentricity $e = Z - \frac{b}{2} = 1.813 - 1.50 = 0.313 m$

$$\frac{b}{6} = \frac{3}{6} = 0.5$$
 : $e < \frac{b}{6}$

552