DIPLOMA STUDENTS IN TECHNICAL STUDIO BY BHANU PRATAP SINGH

S C C C

(7)

Overhanging at both ends:
BTEUP- 1991

Bustion:- A 4m long rod A8 is

Supported at two points C & D.

Whas span is 2m. There are

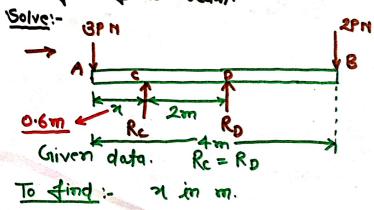
2 downward loads 3PN and 2PN

at A and 8 respectively. If

Re = Rp then find distance 'n'

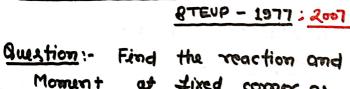
Which is from A to C. Neglect

Weight of the beam.



$$\begin{array}{lll}
\Rightarrow & = F = 0 : \\
+ Rc + R_D - 3P - 2P = 0 \\
Rc + R_D & = 5P \\
\vdots & Rc = R_D
\end{array}$$

$$\begin{array}{lll}
& Rc = R_D \\
& Rc = R_D = 2.5PN \\
& Rc$$



Contilever beam :-

the reaction and 4ixed conner as at shown in diagram.

(ii)
$$\geq M_A = 0$$

-500x4 - 500x6 = 0

 $M_A = \frac{M_A = -5000 \text{ N-M}}{M_A = 5000 \text{ N-M}}$
 $M_R = 5000 \text{ N-M}$
 $M_R = 5000 \text{ N-M}$
 $M_R = 5000 \text{ N-M}$