

# Determinacy :-

## Degree of static indeterminacy ( $D_s$ )

$$D_s = D_{se} + D_{si}$$

external  
Indeterminacy

Internal  
Indeterminacy

$$\therefore D_{si} = D_s - D_{se}$$

How to get  $D_{se}$  :-

$$D_{se} = A - S$$

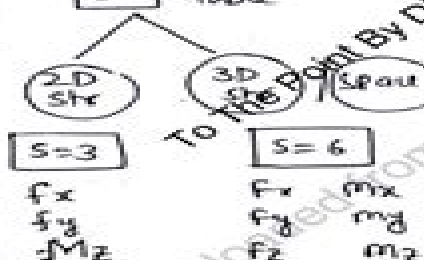
no. of available equilibrium equation

no. of reaction generated

A table

	2D	3D
roller	only $F_y$ hence $r=1$	$A=1$
Hinge	$r=2$ $F_x, F_y$	$r=3$ $F_x, F_y, F_z$
Fix	$A=3$ $F_x, F_y, M_z$	$A=6$ $F_x, F_y, F_z, M_x, M_y, M_z$

S table



## Special :-



only vertical rxn ( $F_y$ )

hence to make it fix  
we have to add 2  
restrain  $F_x, M$

Ans

$$D_s = 3 \times 2 = 6$$

②

~~SS SS~~

only  $F_y, M$

hence only 1 restrain ( $F_x$ ) is  
added to make it fix.

③



rxn  $F_y > M$

hence only 1 restrain  
added  $F_y$  to make it fix

## Type-1 frame $D_s$

2D

$$D_s = 3C - R'$$

if Hinge then  
 $R' = m - 1$

min  
 $C \rightarrow$  no. of cut required to open the structure  
 $R' \rightarrow$  Restrain added to make fix joint

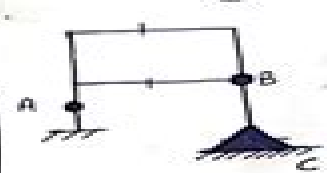
3D

$$D_s = 6C - R'$$

if Hinge  
 $R' = 3(m - 1)$

## Type-1 Practice Problem :-

2D



$$D_s = 3C - R'$$

$C = 2$  { 2 cut req. to make free str.

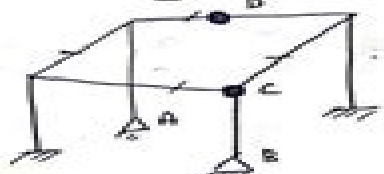
$$R' = A + B + C = 6$$

$A = (m-1) = 2-1 = 1$

$B = m-1 = 3-1 = 2$

already hinge  
hence only 1  
restrain added  
to make it fix

3D



$$D_s = 6C - R'$$

$C = 4$

$$R' = A + B + C + D$$

$A = 3$  (3 restraints added to make fix)

$B = 3$  (3 restraints added to make fix)

$C = 3(m-1) = 3(2-1) = 3$

$D = 3$

$$Ans \Rightarrow 6 \times 4 - 15 = 24 - 15 = 9$$

# Civil Engineering Study 78 3 Structural

**Karin Nielsen-Saines**



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