

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
generators

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

2D Str	3D Str
$S=3$	$S=6$
F_x, F_y, M_z	$F_x, F_y, F_z, M_x, M_y, M_z$

Special :-



only vertical rxn (F_y)

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

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

②



only F_y, M

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

③



rxn F_x, 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

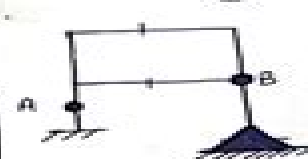
3D

$$D_s = 6C - R'$$

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

Type-1 Practice Problem :-

2D



$$D_s = 3C - R'$$

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

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

3D



$$D_s = 6C - R'$$

$C = 4$

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

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

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RC Schank



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