

CEL 774 CONSTRUCTION PRACTISES



***INDUSTRIALIZED BUILDING
(Pre-fabrication)
B. Bhattacharjee***

***CIVIL ENGINEERING DEPARTMENT
IIT DELHI***



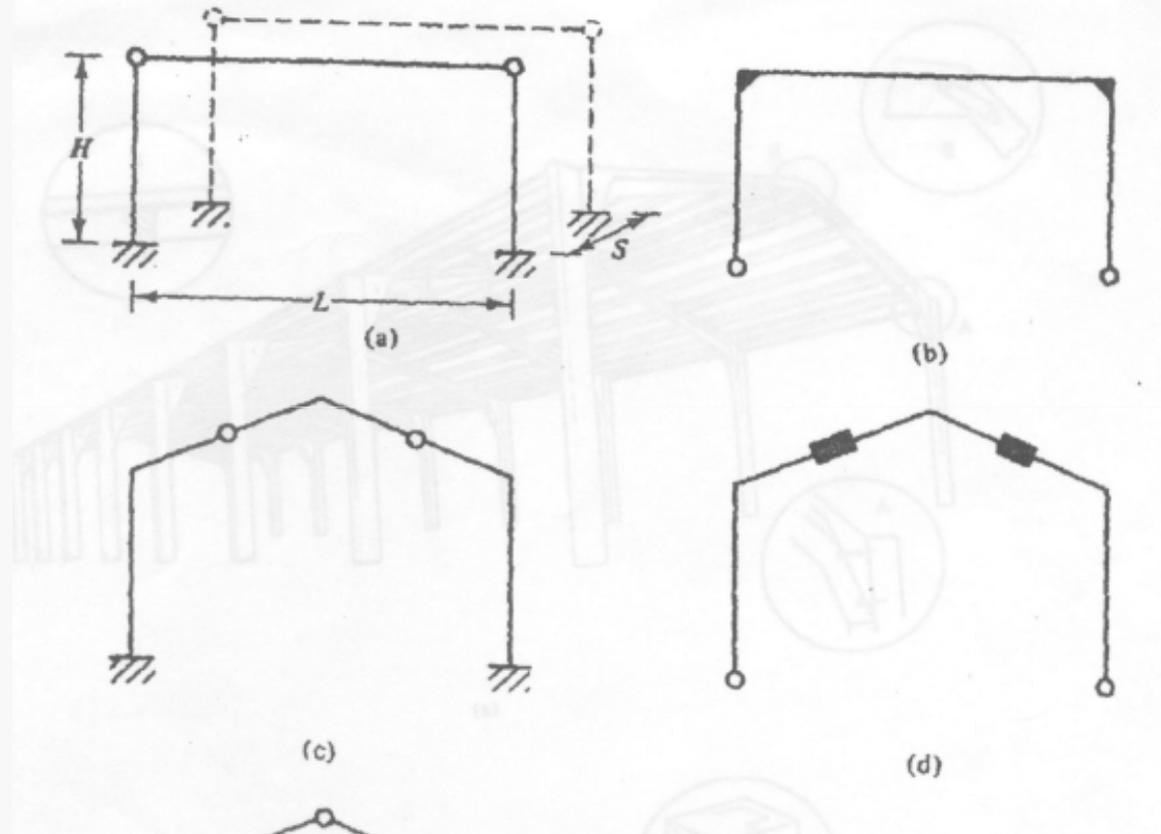
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PRINCIPLES

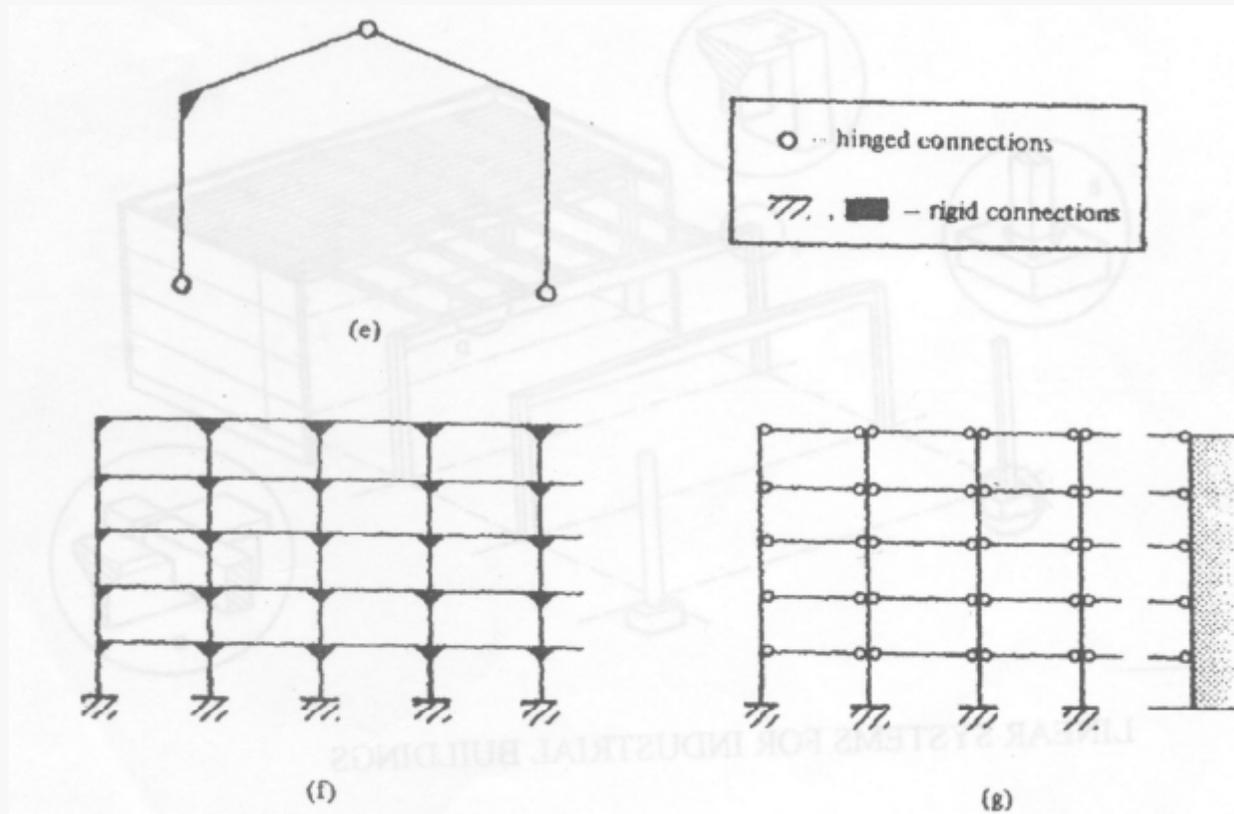
- *As many as possible components shall be prefab.*
- *Large prefab assembly with minimum erection, jointing & Finishing.*
- *Performance over life.*
- *Maximum diversification in design.*
- *Dynamic adjustments to need of user*
- *Effective coordination between design and production*



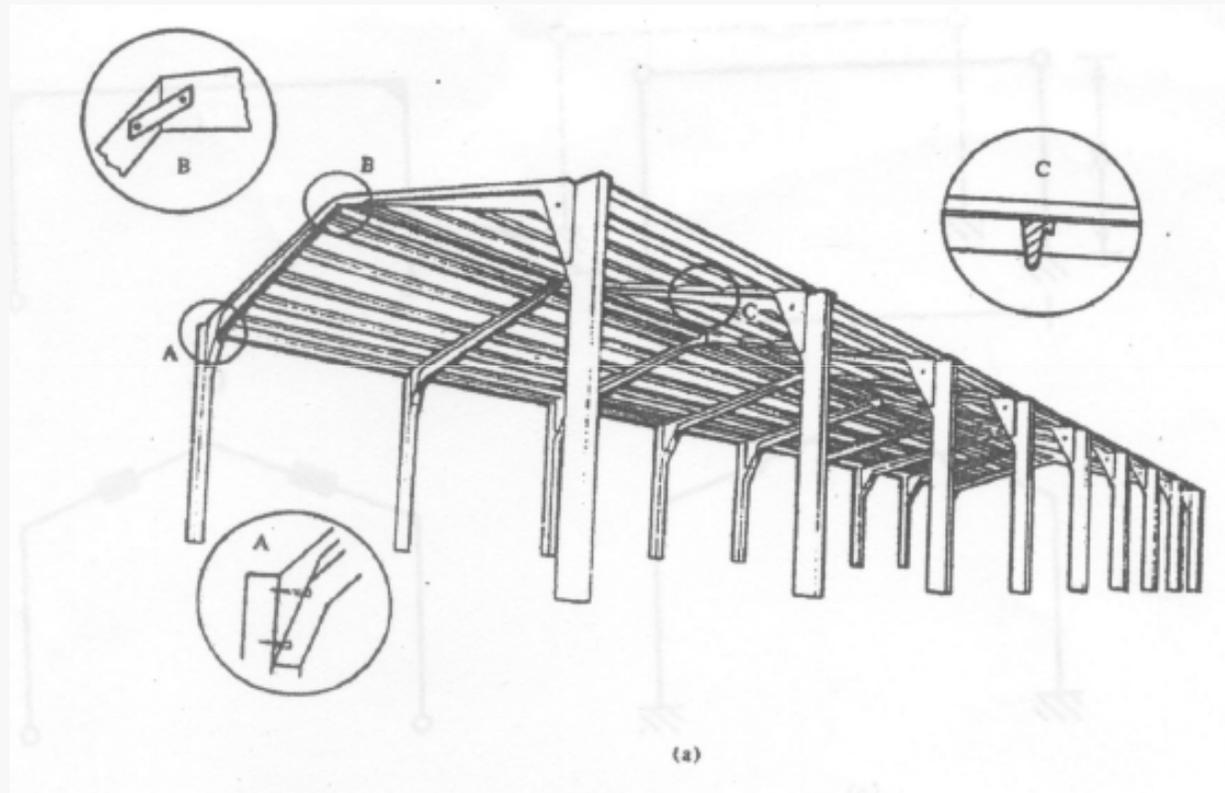
LINEAR SYSTEM



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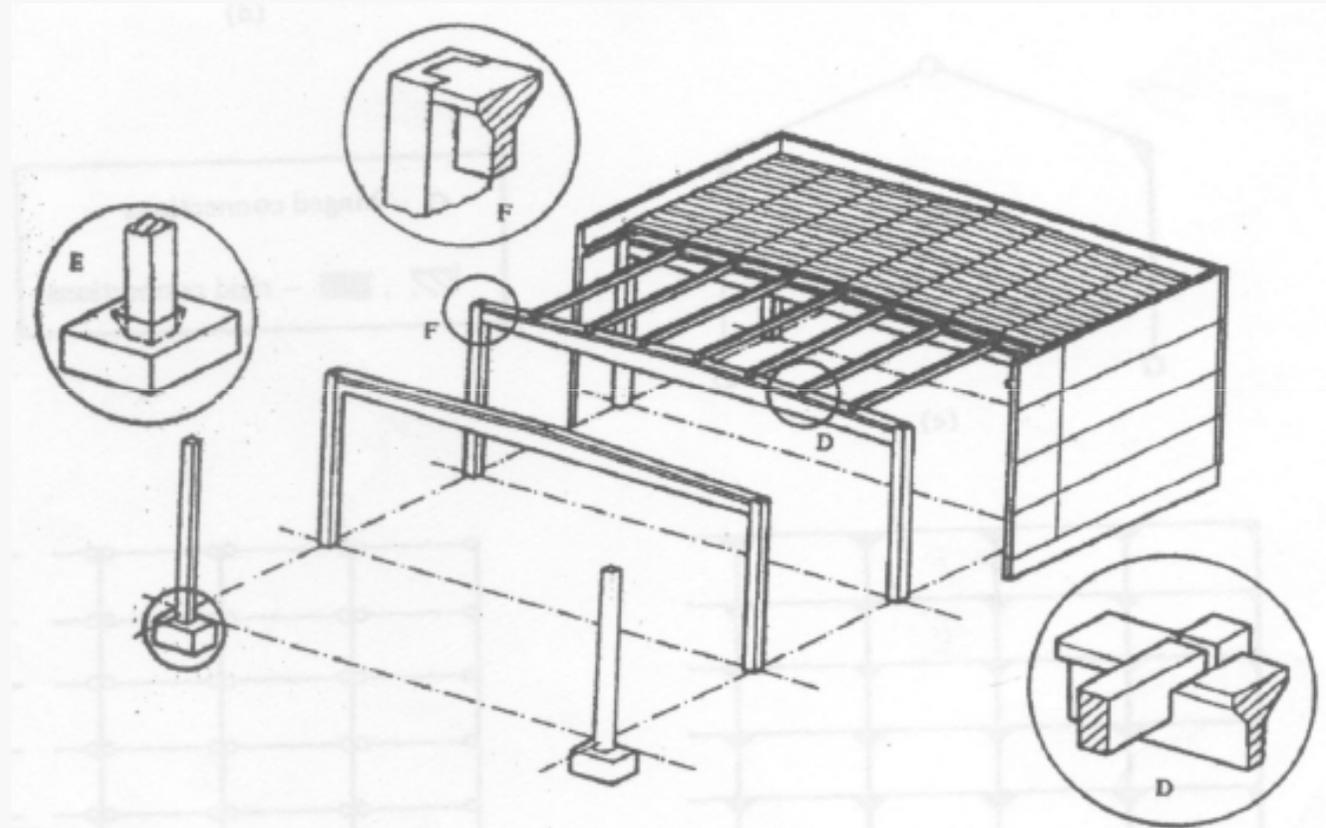


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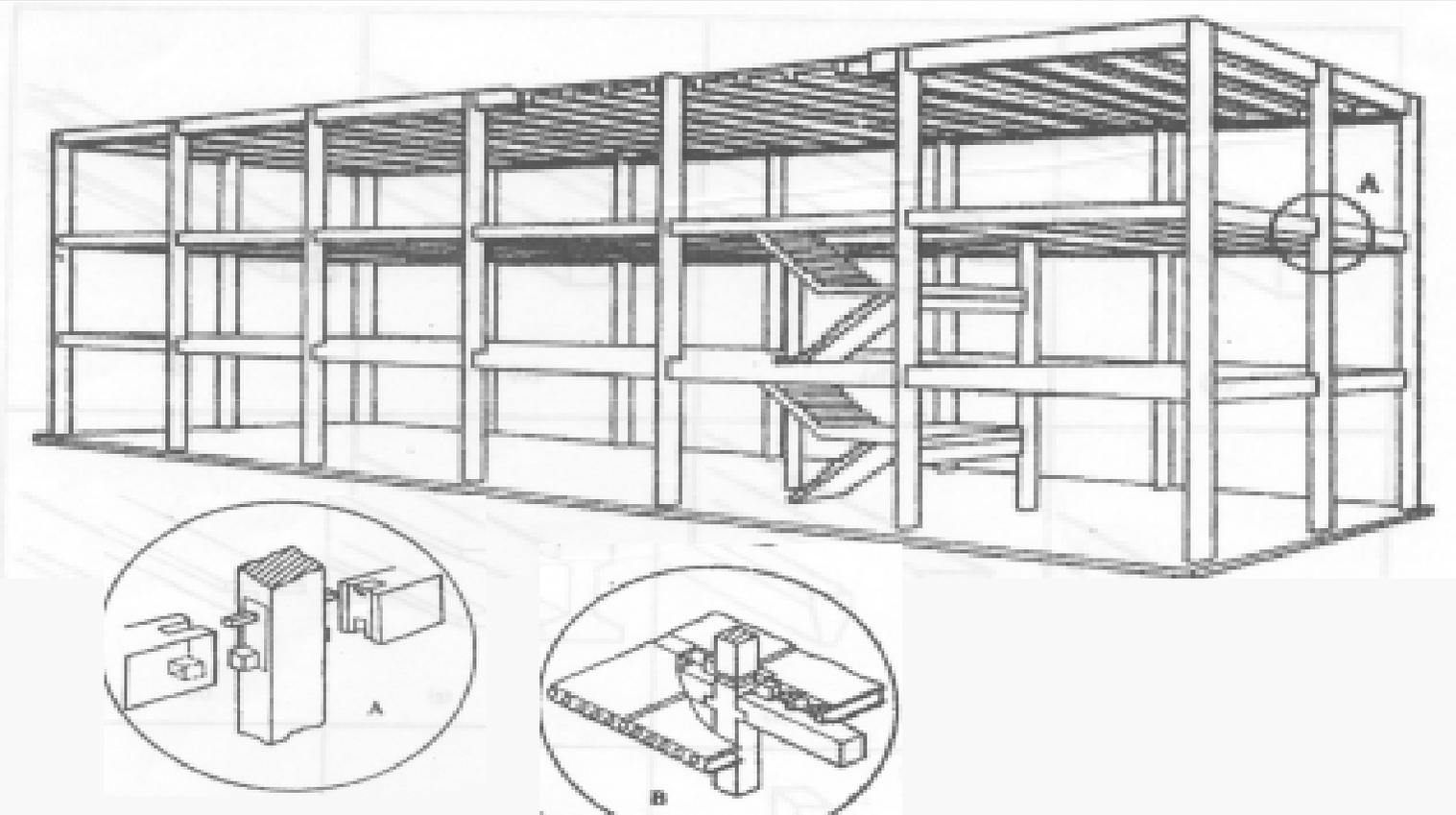
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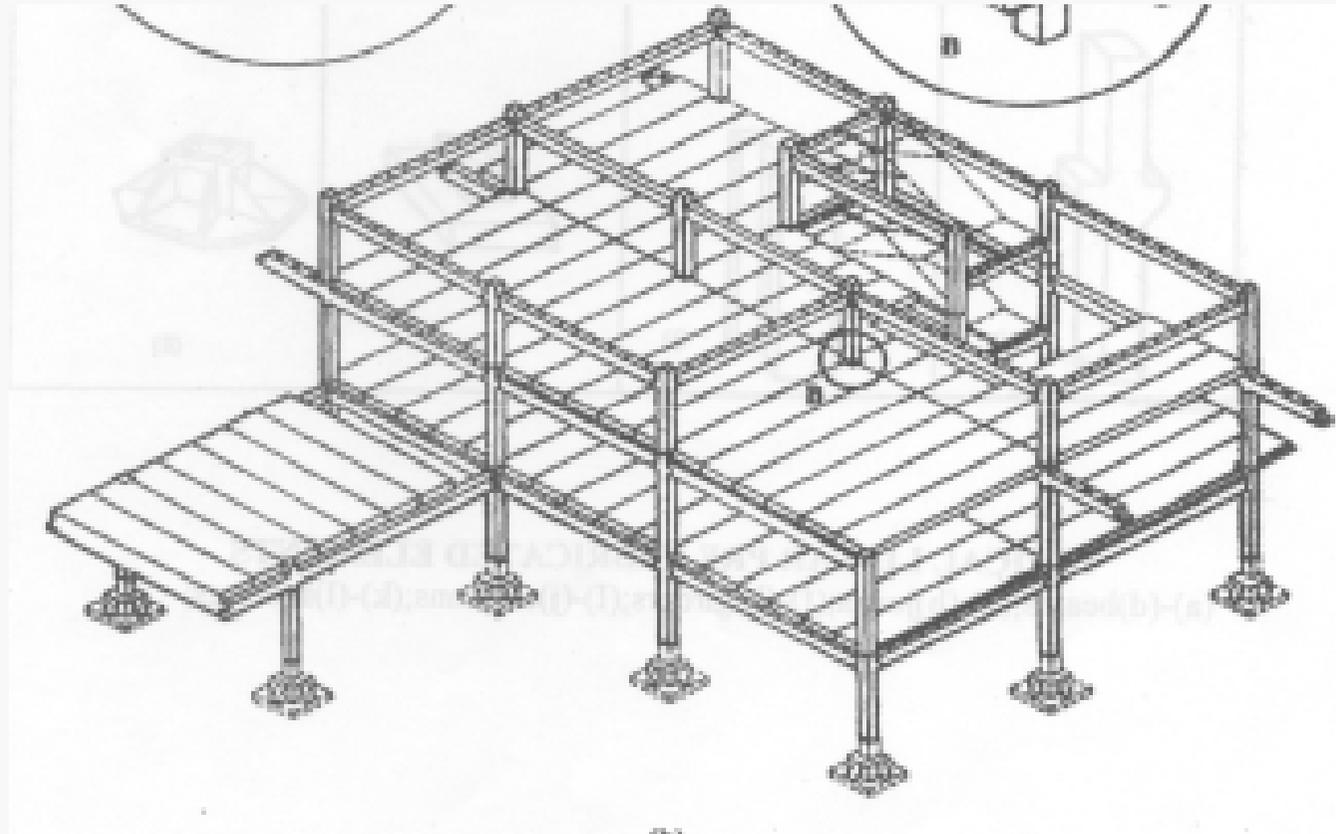
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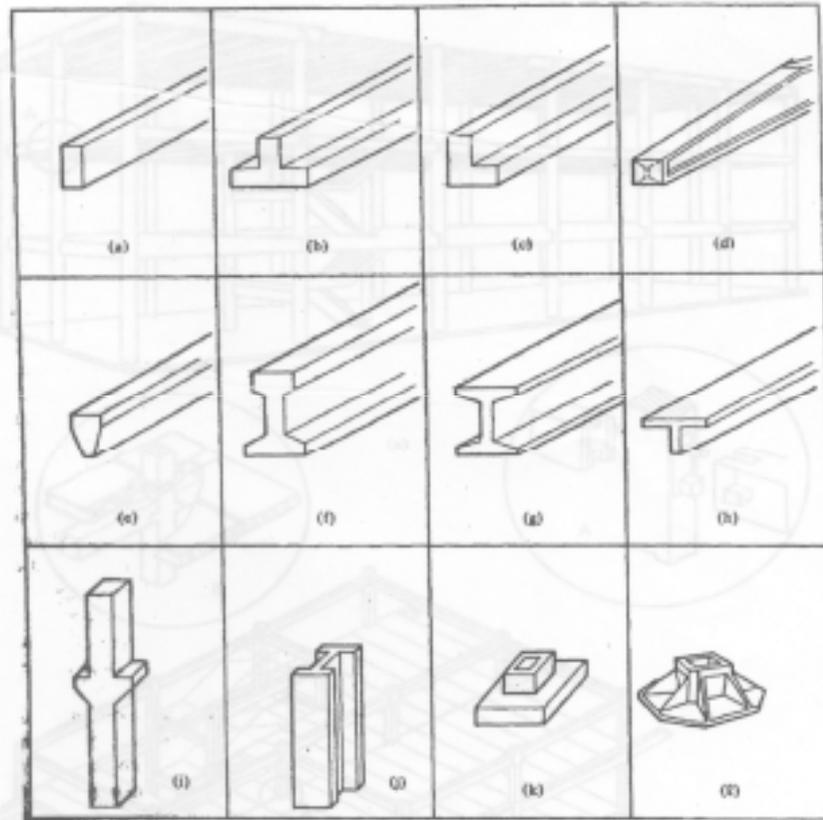
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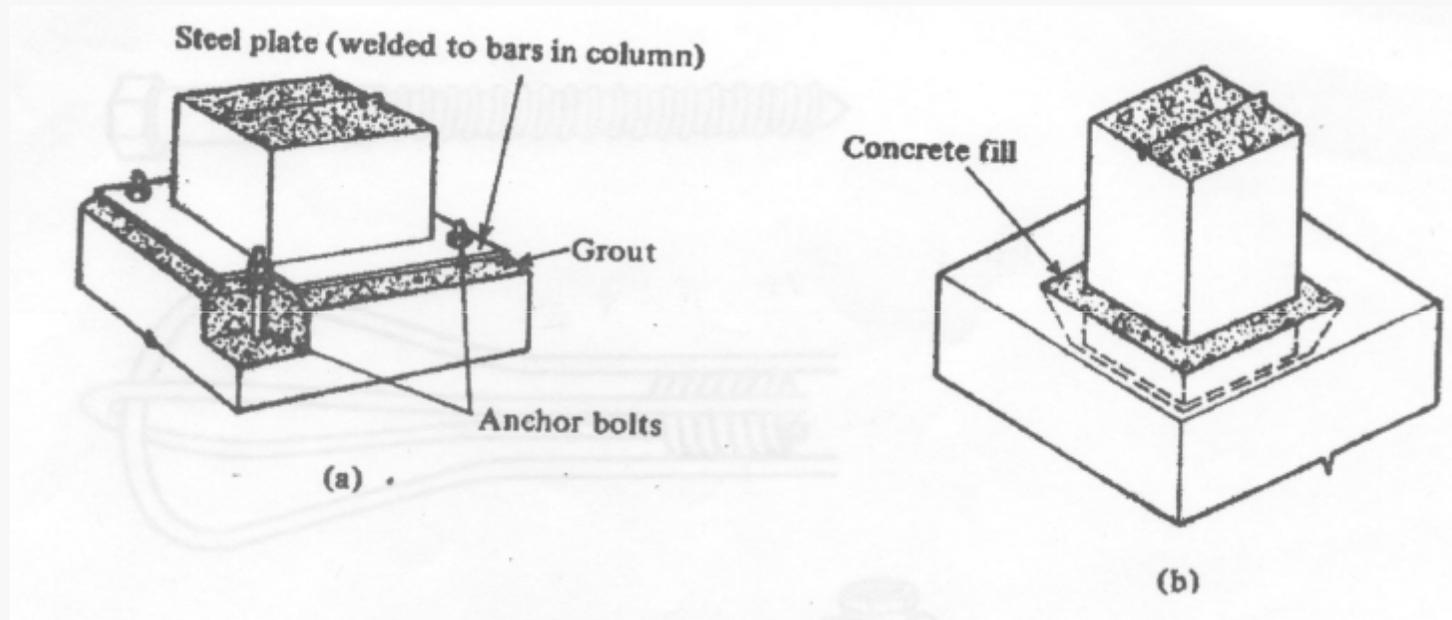


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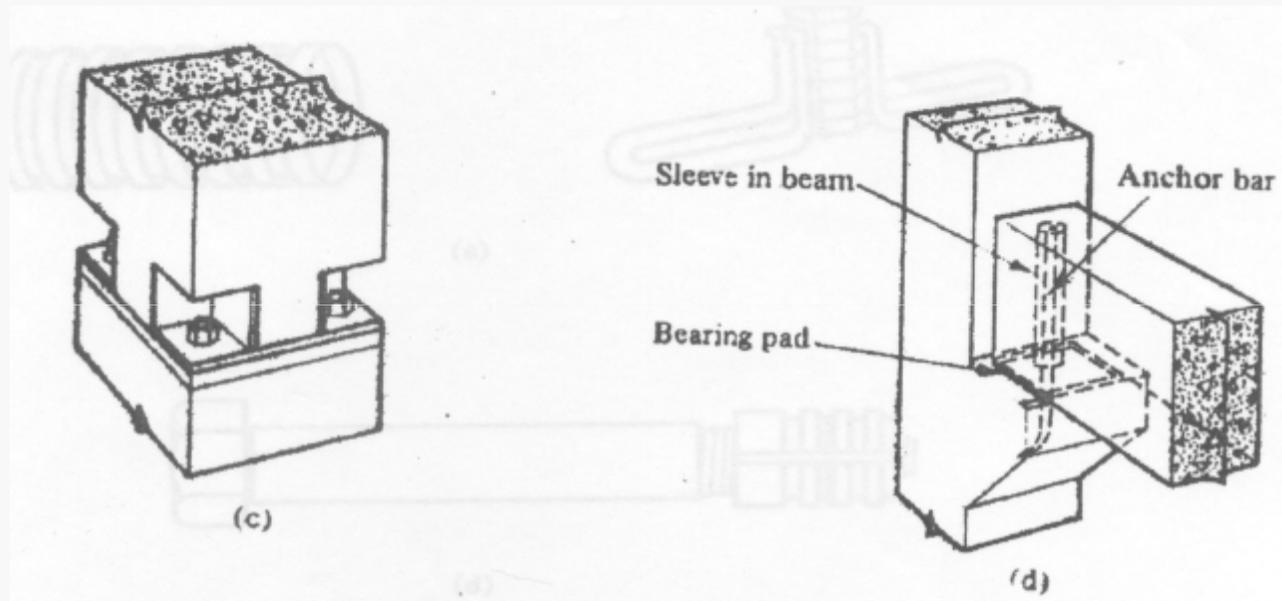
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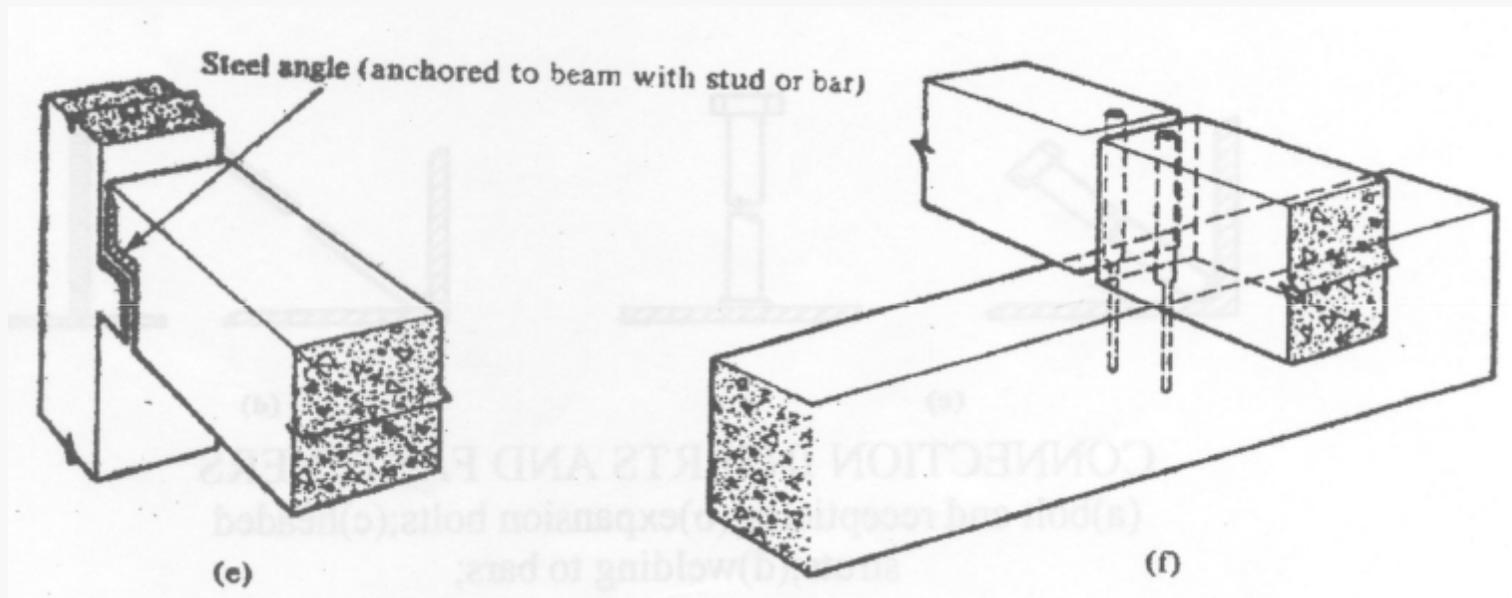
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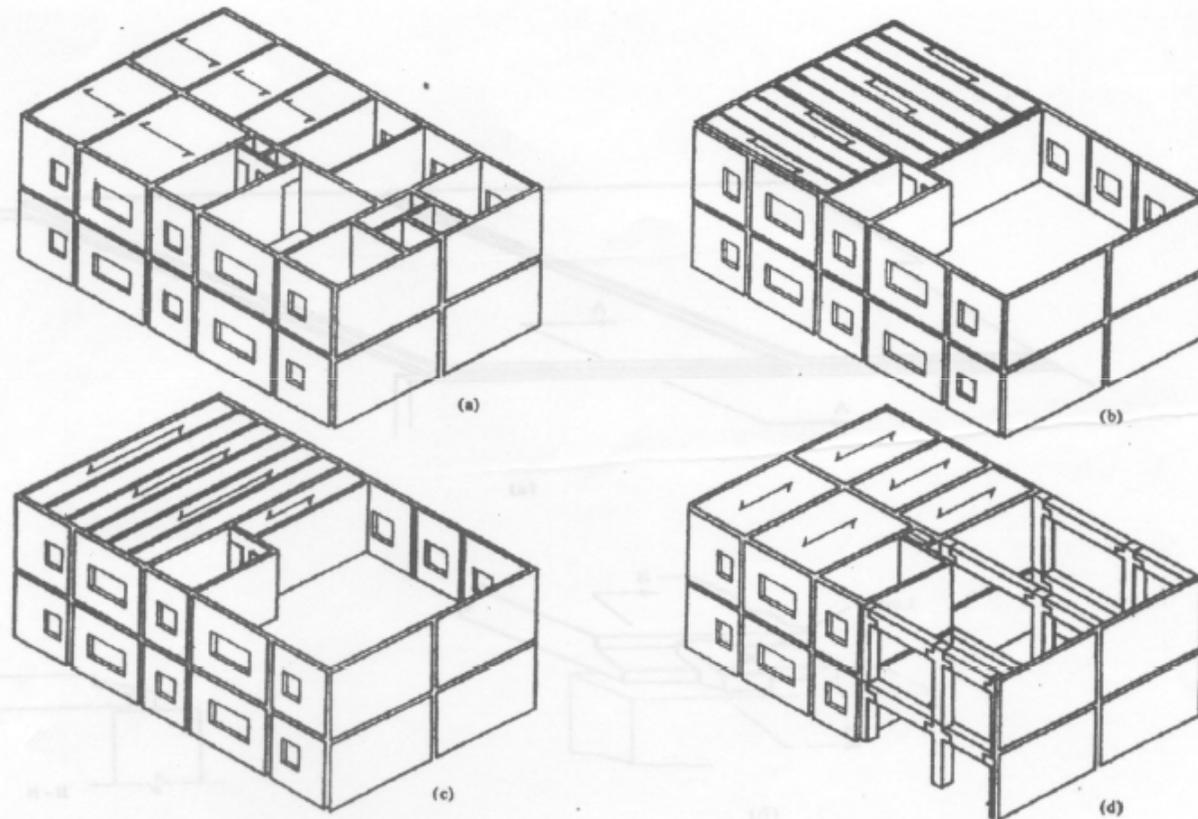
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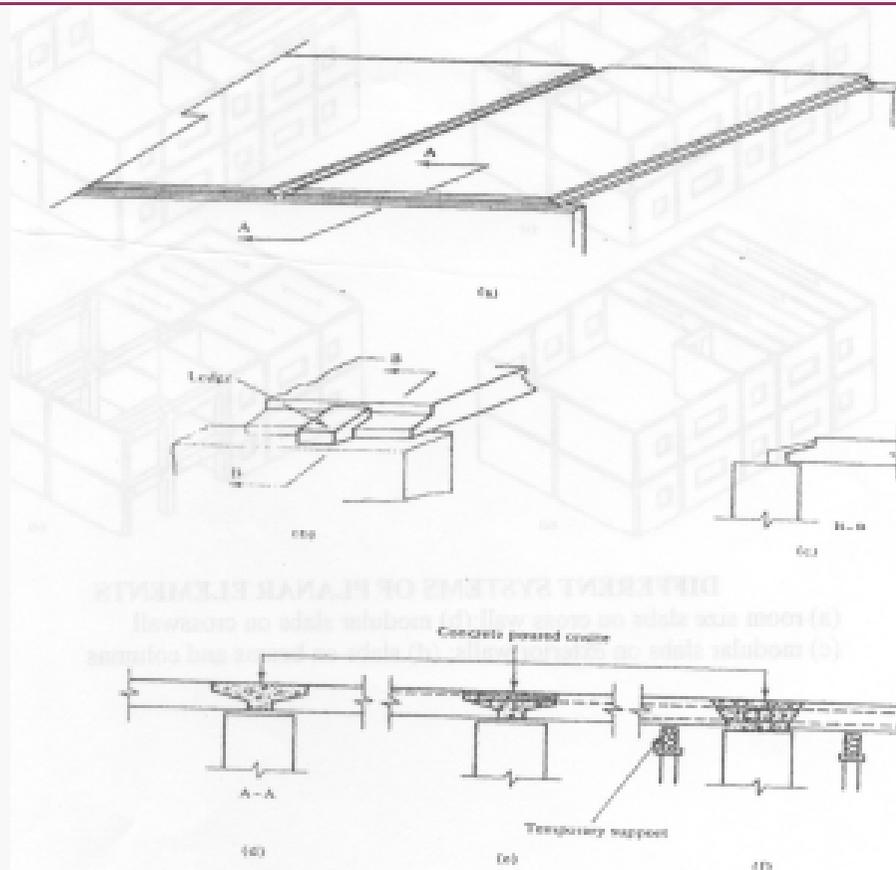


PLANAR SYSTEM

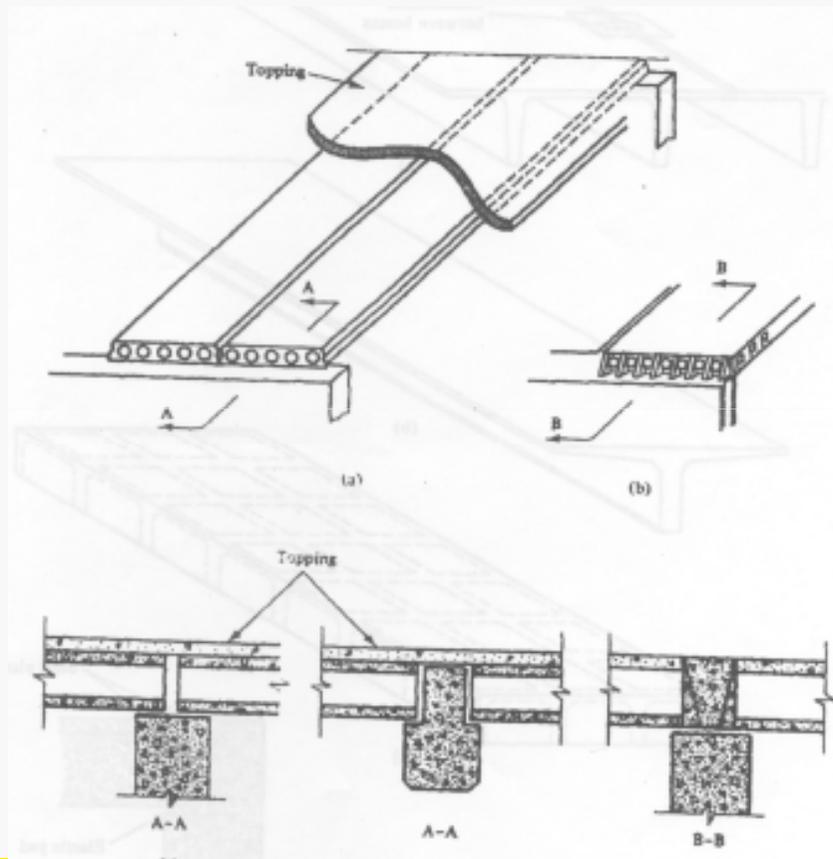


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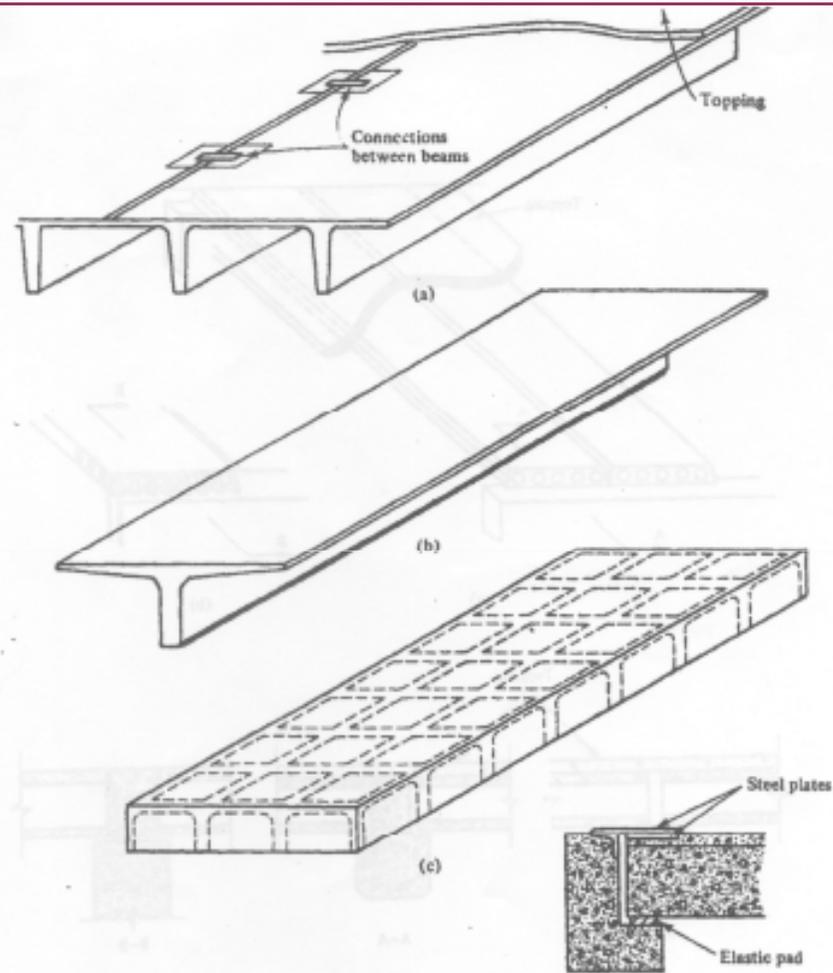
PLANAR SYSTEM



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PLANAR SYSTEM

Type of floor	Width (m)	Thickness (height) (mm)	Typical thickness-to-span ratio	Applicable span range (m)												
				0	4	8	10	12	14	16	18	20	24	28	30	
Flat slab (nonprestressed)	2.40-4.00	100-150	1:25-1:30													
Hollow core slab (nonprestressed)	0.60-1.20;	140-220	1:25-1:30													
	2.40 (modular)															
Hollow core slab (prestressed)	0.60-0.90;	140-300	1:30-0.45													
	1.20; 2.40 (modular)															
Double Tee (prestressed)	2.40; 3.00	500-800	1:20-1:25													
	(modular)															
Single Tee (prestressed)	2.40; 3.00	800-1200	1:20-1:25													
	(modular)															
Ribbed (masseter) slab (nonprestressed)	1.00-2.00	300-500	1:25-1:30													



PLANAR SYSTEM



***THANK YOU FOR
HEARING***



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