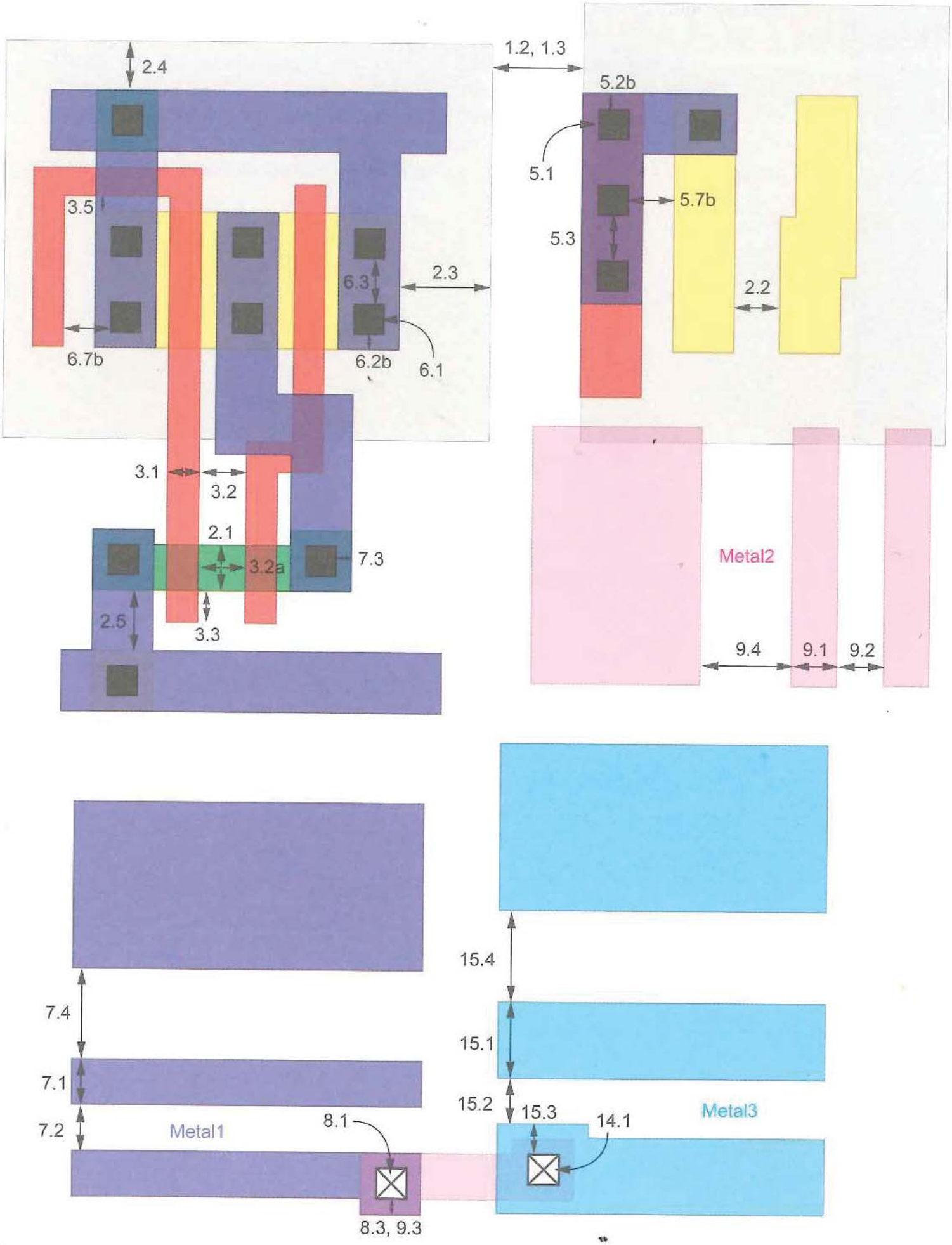
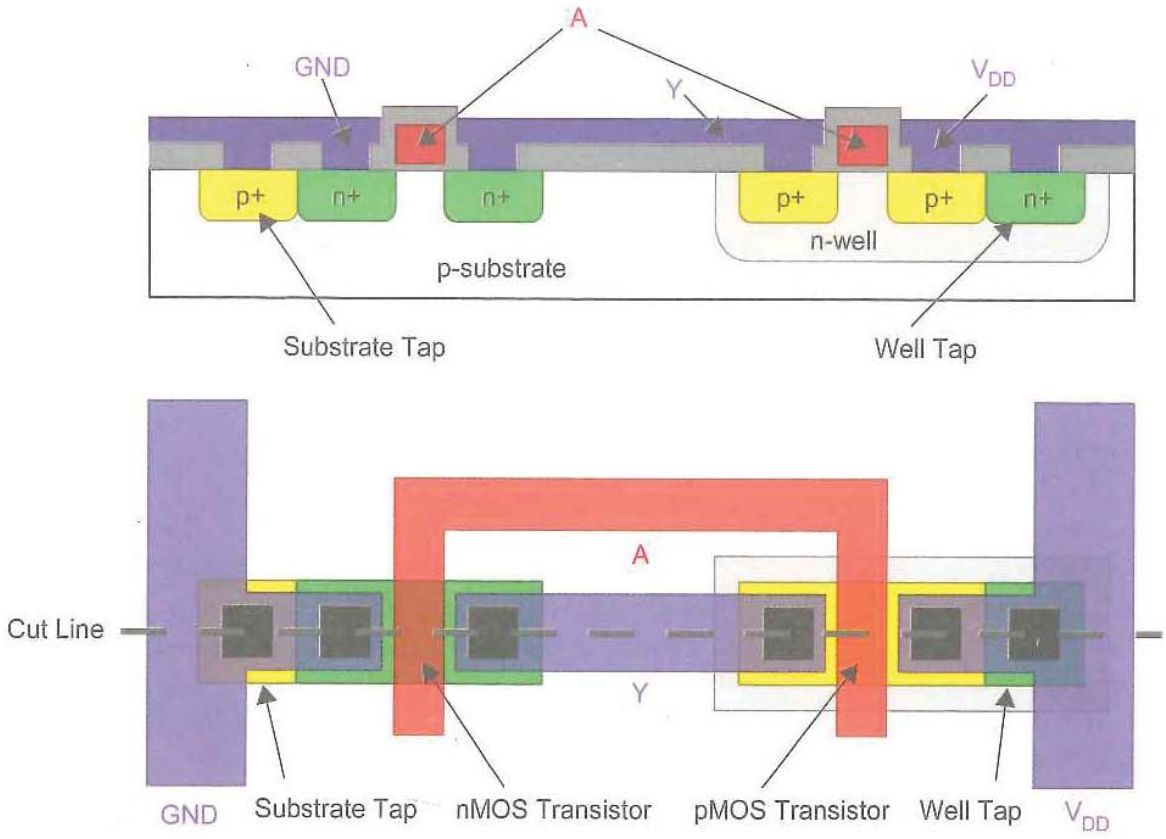
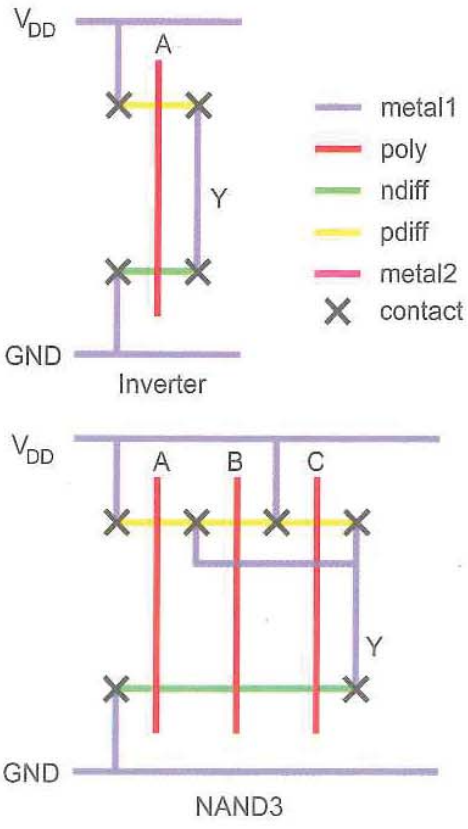
MOSIS SUBM design rules (3 metal, 1 poly with stacked vias & alternate contact rules)			
Layer	**Rule**	**Description**	**Rule (λ)**
N-well	1.1	Width	12
	1.2	Spacing to well at different potential	18
	1.3	Spacing to well at same potential	6
Active (diffusion)	2.1	Width	3
	2.2	Spacing to active	3
	2.3	Source/drain surround by well	6
	2.4	Substrate/well contact surround by well	3
	2.5	Spacing to active of opposite type	4
Poly	3.1	Width	2
	3.2	Spacing to poly over field oxide	3
	3.2a	Spacing to poly over active	3
	3.3	Gate extension beyond active	2
	3.4	Active extension beyond poly	3
	3.5	Spacing of poly to active	1
Select (n or p)	4.1	Spacing from substrate/well contact to gate	3
	4.2	Overlap of active	2
	4.3	Overlap of substrate/well contact	1
	4.4	Spacing to select	2
Contact (to poly or active)	5.1, 6.1	Width (exact)	2 × 2
	5.2b, 6.2b	Overlap by poly or active	1
	5.3, 6.3	Spacing to contact	3
	5.4, 6.4	Spacing to gate	2
	5.5b	Spacing of poly contact to other poly	5
	5.7b, 6.7b	Spacing to active/poly for multiple poly/active contacts	3
	6.8b	Spacing of active contact to poly contact	4
Metal1, Metal2	7.1, 9.1	Width	3
	7.2, 9.2	Spacing to same layer of metal	3
	7.3, 8.3, 9.3	Overlap of contact or via	1
	7.4, 9.4	Spacing to metal for lines wider than 10λ	6
Via1, Via2	8.1, 14.1	Width (exact)	2 × 2
	8.2, 14.2	Spacing to via on same layer	3
Metal3	15.1	Width	5
	15.2	Spacing to metal3	3
	15.3	Overlap of via2	2
	15.4	Spacing to metal for lines wider than 10 λ	6
Overglass Cut	10.1	Width of bond pad opening	60 μm
	10.2	Width of probe pad opening	20 μm
	10.3	Metal3 overlap of overglass cut	6 μm
	10.4	Spacing of pad metal to unrelated metal	30 μm
	10.5	Spacing of pad metal to active or poly	15 μm



MOSIS Design Rules



FIGURES 1.34–1.35(a) Inverter Cross-Section and Top View



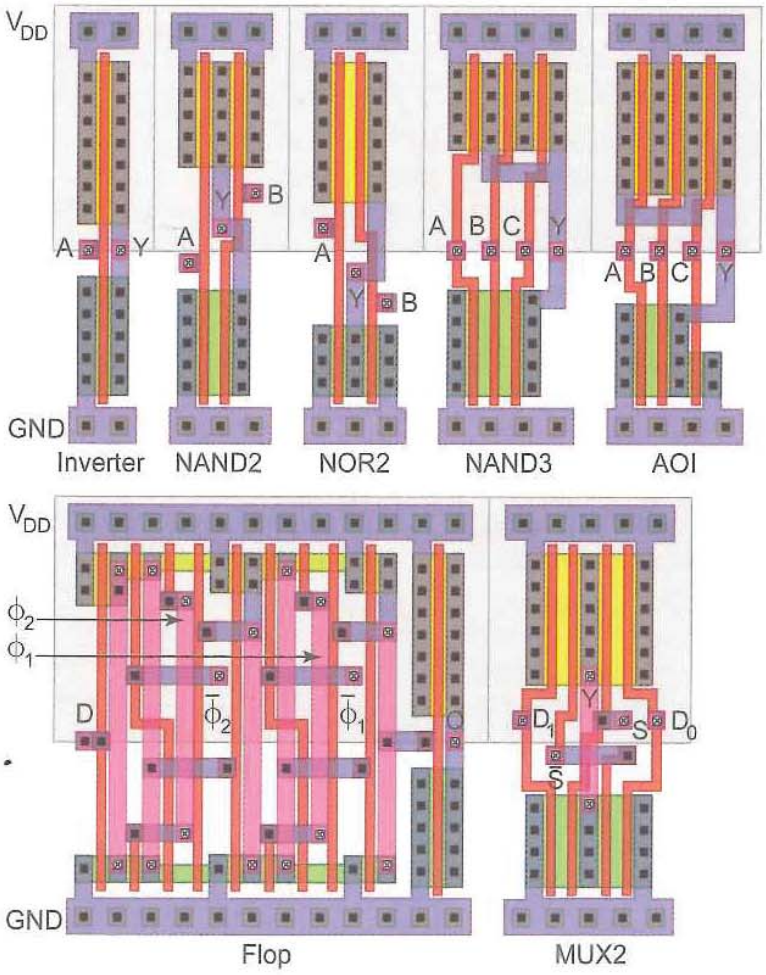
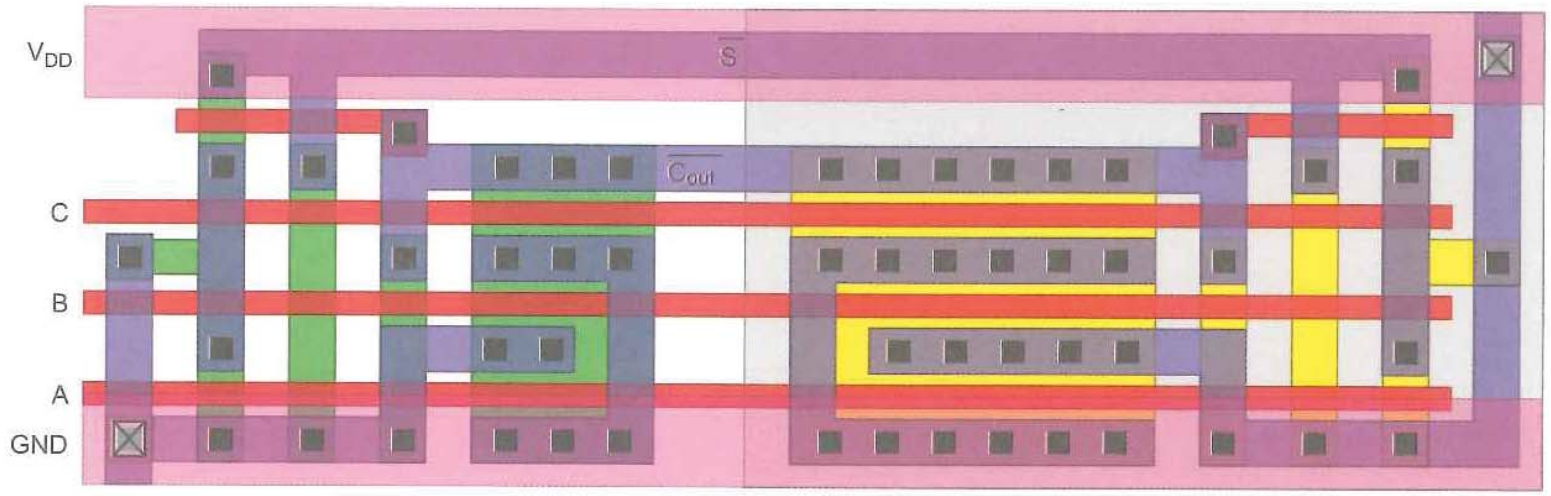
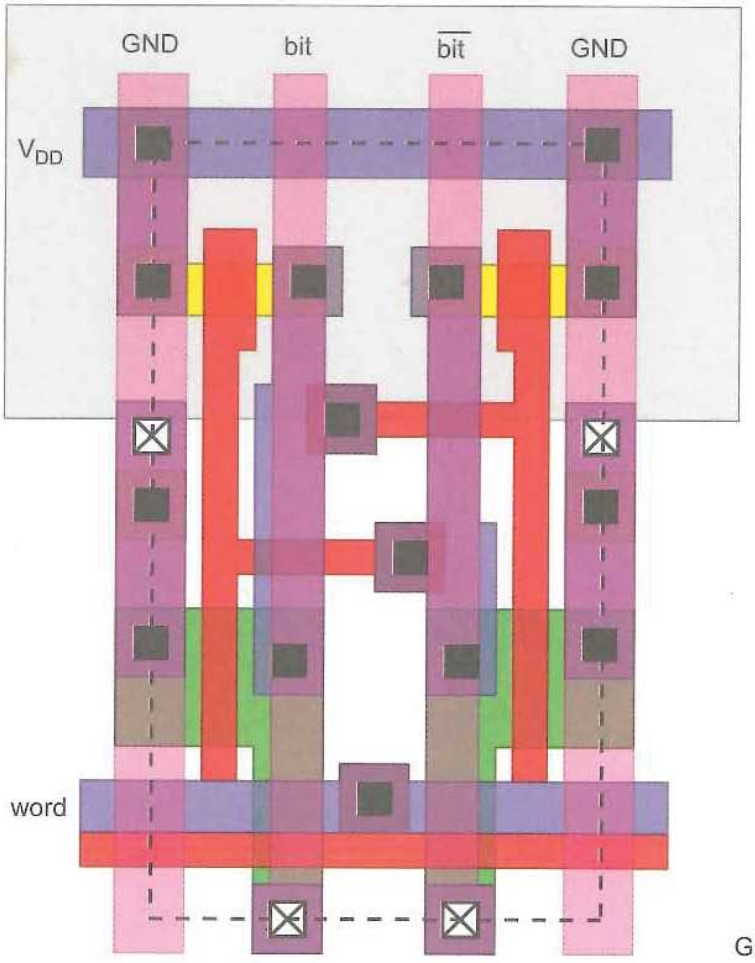


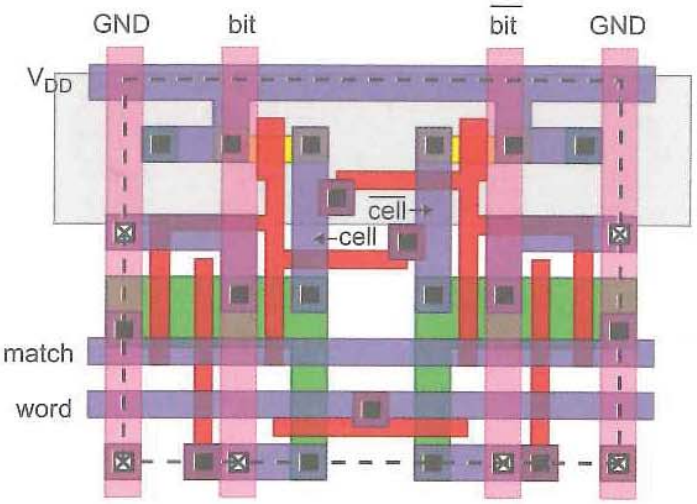
FIGURE 1.43 Stick Diagrams **Standard Cell Layouts**



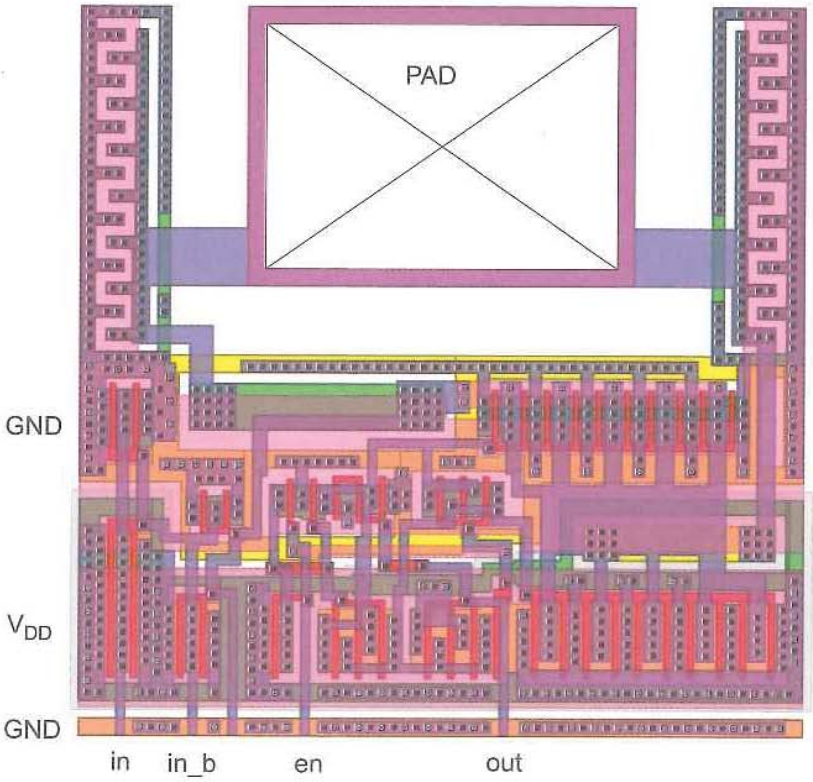
Full Adder Layout



6T SRAM Layout



CAM Layout



I/O Pad Layout