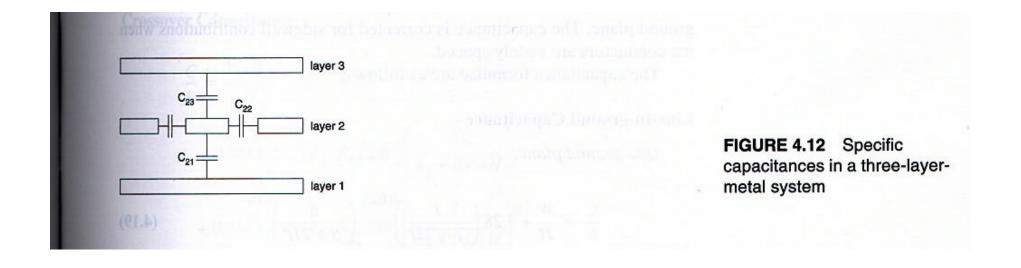


FIGURE 4.9 Effect of fringing fields on capacitance









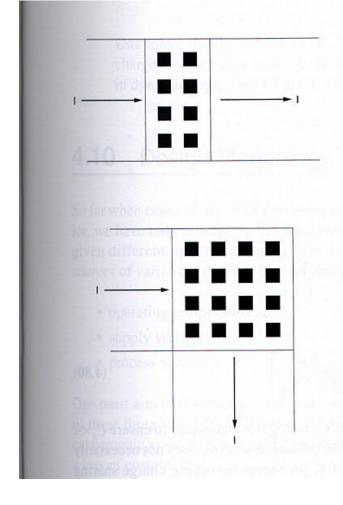


FIGURE 4.38 Contact structures for linear and orthogonal joints

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- Rise time, t_r = time for a waveform to rise from 10% to 90% of its steady-state value.
- Fall time, t_f = time for a waveform to fall from 90% to 10% of its steady-state value.
- Delay time, t_d = time difference between input transition (50%) and the 50% output level. (This is the time taken for a logic transition to pass from input to output.)

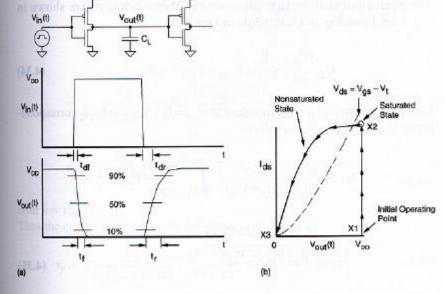


FIGURE 4.18 Switching characteristic for CMOS inverter (a) circuit and waveforms, (b) trajectory of n-transistor operating point during switching

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