

THE CONCEPT OF PRIME IMPLICANTS, ESSENTIAL PRIME IMPLICANTS & REDUNDANT PRIME IMPLICANTS.

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Definitions :

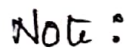
PI : Each square or rectangle made up of the bunch of adjacent minterms is called as Subcube. Each of these sub cubes are called as Prime Implicants.

EPI : The Prime Implicant which contains atleast a single '1', which cannot be covered by any other PI is called as Essential Prime Implicant (EPI).

RPI : The PI in which each 1 is covered by atleast by one EPI is called as Redundant PI (RPI).

SPI : A PI which is neither an EPI nor a RPI is called as Selective PI (SPI)

Jk-map



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