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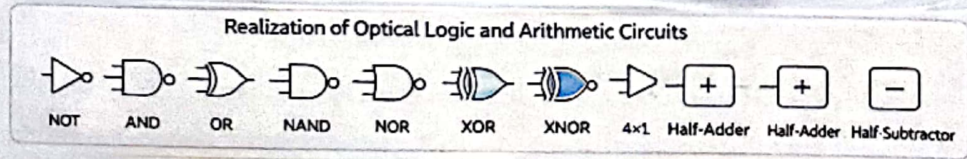
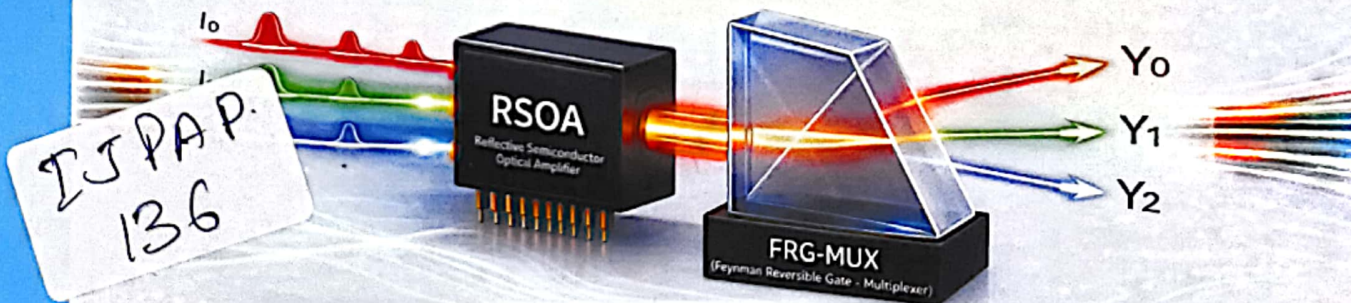
Indian Journal of Pure and Applied Physics

JCR-2024 Impact Factor 1.10

RSOA-Based MUX

for All-Optical Reversible Logic Circuits

NOT • AND • OR • NAND • NOR • XOR • 4x1 MUX • 4x1 MUX • Half-Adder • Half-Subtractor



HIGH-SPEED ALL-OPTICAL OPERATION

LOW ENERGY CONSUMPTION

EXCELLENT SIGNAL INTEGRITY

PERFORMANCE METRICS: • Extinction Ratio (ER) • Contrast ratio (CR) • Relative Eye Opening (REOP)



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