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$\leq K \leq N-1$ ($N = 2^n$) K Expressible As N -bit Number: - $K = K_{n-1}2^{n-1} + k_{n-2}2^{n-2} + \dots + K_12 + K_0$, $K_i \in \{0, 1\}$ Barrel Shifter: Construct From N Levels Of $N/2$ -in Multiplexors - When Level i Either Shifts Last Level By 2^{i-1} Or Pass Unchanged Circuits-C Sli Feb 5th, 2024 Introduction To CMOS VLSI Design Circuits-A CMOS VLSI Design Slide 2 Outline: Circuits Lecture A - Physics 101 - Semiconductors For Dummies - CMOS Transistors For Logic Designers Lecture B - NMOS Logic - CMOS Inverter And NAND Gate Operation - CMOS Gate Design - Adders - Multipliers Lecture C - P Feb 1th, 2024.

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