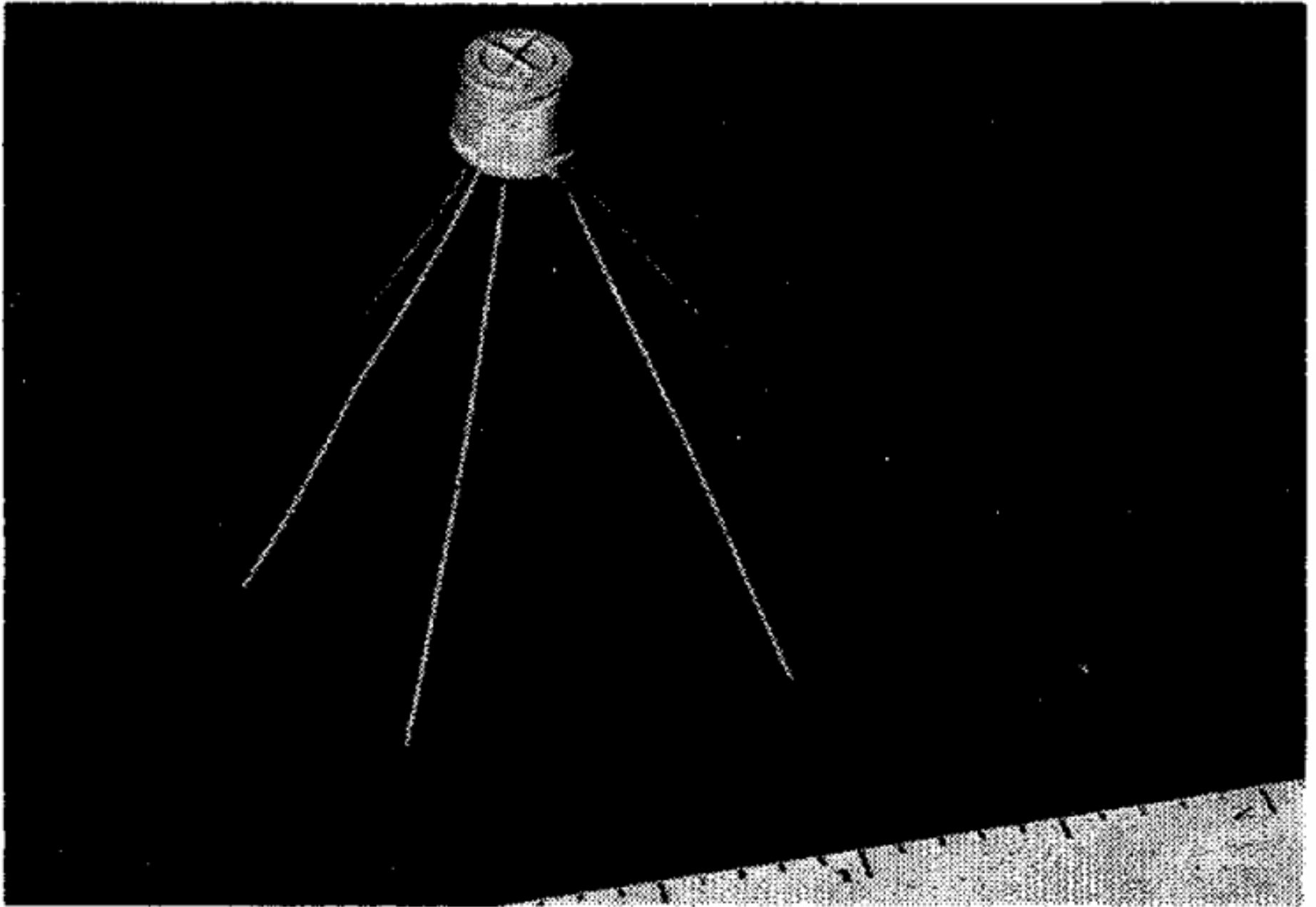


HIGH SPEED TRANSISTOR LOGIC INTEGRATION

ISSCC 1960



Solid-State Micrologic Elements

THE FIRST INTEGRATED circuits started appearing only a few years after the initial pioneering work on bipolar transistor logic. It was realized that transistor integration allowed the basic logic elements to achieve high speed operation and higher component density. This paper documented the first integrated direct coupled bipolar transistor logic circuits. This marked a very important first step towards the era of very large scale integration (VLSI), where high integration densities continue to provide ever increasing levels of computational power for today's systems.

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