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Design for manufacturability and yield - ScienceDirect
Overall yield is composed of five subcategories: systematic yield, parametric yield, defect-related yield, design-related yield, and test-related yield. Design for Manufacturability and Yield The possibility of repair introduces additional complexity to yield calculations, but with the benefit of recovering parts that would otherwise be unusable.

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As technology advances, both manufacturing and design complexity grow. Designs are being scaled down to meet the ever-increasing demand for more functionality contained in a single chip, creating unique implementation challenges. Manufacturing is facing huge challenges in terms of printability, manufacturability, yield ramp-up, and variability.

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