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Design for Manufacturability and  
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the reader through all the aspects of manufacturability and yield in a nano-CMOS process and how to address each aspect at the proper design step starting with the design and layout of standard cells and how to yield-grade libraries for critical area and

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Lithography artifacts through  
place and route, CMP model  
based simulation and dummy-fill  
insertion, mask planning,  
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Yield for Nano-Scale CMOS ...  
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Yield for Nano-Scale CMOS walks  
the reader through all the aspects  
of manufacturability and yield in a  
nano-CMOS process and how to  
address each aspect at the proper  
design step starting with the



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design and layout of standard cells and how to yield-grade libraries for critical area and lithography artifacts through place and route, CMP model based simulation and dummy-fill insertion, mask planning, simulation and manufacturing,

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## *Design for Manufacturability and Yield for Nano-Scale ...*

The design for manufacturability (DFM)/yield objective can then be expressed in the following way (curve 2 in Fig. 1): (1) Provide

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better process/circuit design prior to manufacturing or transferring the process from the R&D line to the manufacturing line. (2) Speed-up the learning curve climbing.

*Design for manufacturability and yield - ScienceDirect*

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Andnej J. Strojwas Department of  
ELECTRICAL and Computer  
Engineering Carnegie Mellon

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Abstract This tutorial focuses on the dcsim strategies for VLSI circuits that are aimed at achieving manufacturable, high-yielding, chips. We review the current status of statistical design methodologies modeling and

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*Design for manufacturability and yield | 10.1145/74382 ...*

Design for Manufacturability and Yield The existence of this layered structure has allowed organizations to concentrate on

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areas where they can add the most value, whereas the introduction of standard approaches and hand-offs at layer boundaries have allowed for increasing levels of abstraction with the understanding that the underlying components are

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sometimes known as design for manufacturing or DFM) is the general engineering practice of designing products in such a way that they are easy to manufacture. The concept exists in almost all engineering disciplines, but the

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*Design for manufacturability - Wikipedia*

Design for Manufacturability (DFM) and Design for Testability

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The concepts of Design for  
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Yield DFM/DFY are bringing

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together domains that co-existed mostly separated until now – circuit design, physical design and manufacturing process. New requirements like SoC, mixed analog/digital design and deep-submicron technologies force to a mutual integration of all levels.

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*DFM/DFY Design for Manufacturability and Yield - Influence ...*

DFMA Advantages Quantitative method to assess design Communication tool with other engineering disciplines and other

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departments (Sales, etc.) Greater role for other groups while still in the “engineering” phase such as Manufacturing Since almost 75% of the product cost is determined in the “engineering” phase, it gives a tool to attack

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*Overview of Design for  
Manufacturing and Assembly  
(DFMA)*

Design for Excellence or Design  
For Excellence, are terms and  
expansions used interchangeably  
in the existing literature, where  
the X in design for X is a variable

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which can have one of many possible values. In many fields  $X$  may represent several traits or features including: manufacturability, power, variability, cost, yield, or reliability. This gives rise to the terms design for

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manufacturability, design for inspection, design for variability, design for cost. Similarly, other disciplines may

*Design for X - Wikipedia*

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manufacturability and variability

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solutions is used by both designers and manufacturers to improve design manufacturability and reduce the time to yield.

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*Design for Manufacturing  
Overview*

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Assembly Terminology: Design  
for... (DFx) <sup>3</sup>/<sub>4</sub>Design for

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Manufacturing (DFM) refers to design activity that is based on minimizing the cost of production and/or time to market for a product, while maintaining an appropriate level of quality. A primary strategy in DFM involves minimizing the number of parts in

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process often can cut in half costs  
and time-to-market while adding  
significant improvements to  
quality and delivery.

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Design for Assembly Principles

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Minimize part count Design parts with self-locating features Design parts with self-fastening features Minimize reorientation of parts during assembly Design parts for retrieval, handling, & insertion Emphasize 'Top-Down' assemblies Standardize

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parts...minimum use of fasteners.  
Encourage modular design

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