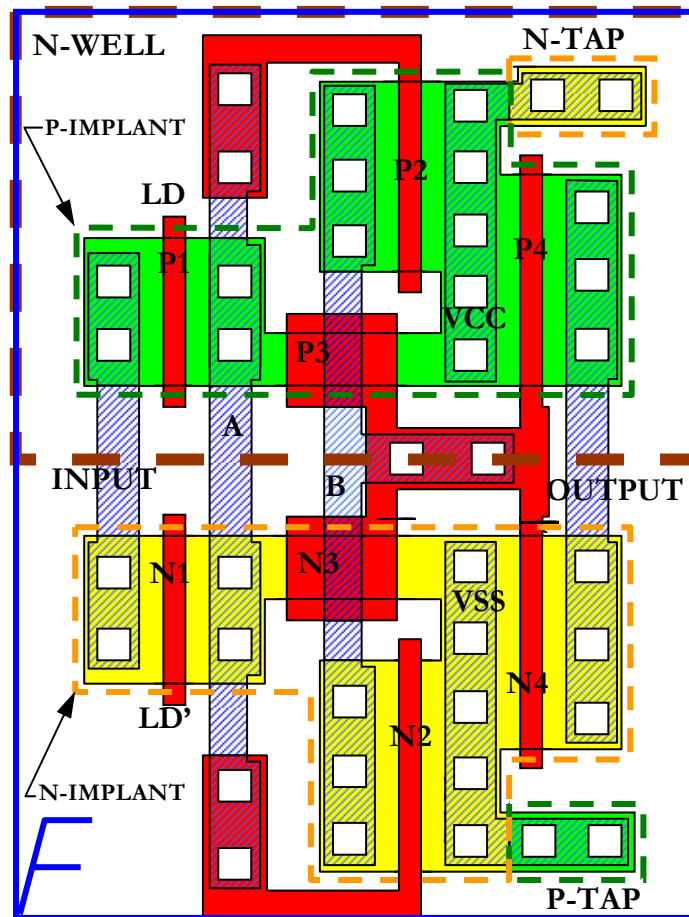


CMOS IC LAYOUT

A Guide to Topological Chip Design



WILLIAM H. BRADBURY

Mentor Graphics' IC-STATION® "Student Version" LAYOUT SOFTWARE and INSTRUCTION PROGRAM INCLUDED – Runs under LINUX OS on a PC



Technical Contributors:

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EduMedia™ Development Corp.

TEXT INCLUDES:

COPPER
DEEP SUBMICRON
PLANNING • BUSSES
CLOCK TREES

POWER
DISTRIBUTION

CAPACITORS
DIODES • TAPS
INDUCTORS
RESISTORS • ESD
I/O DEVICES
HIERARCHY
CONTACTS • VIAS
ANTENNA RULES

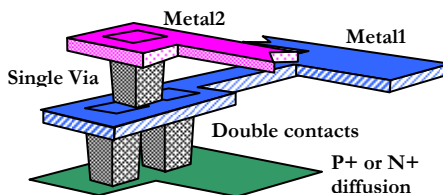
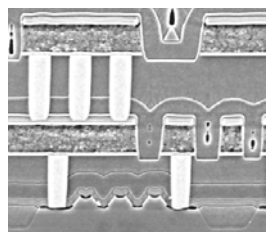
ELECTRO-
MICROGRAPHS

LEGGING
MATCHING
GUARDRINGS

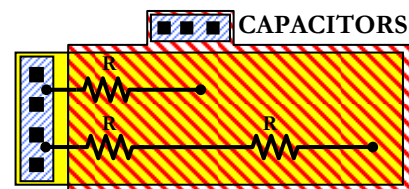
ELECTRO-MIGRATION

DIESEALS • FUSES
STANDARD CELLS
BOND PADS
TEXT DEVICES
YIELD
VERIFICATIONS
DRC • LVS

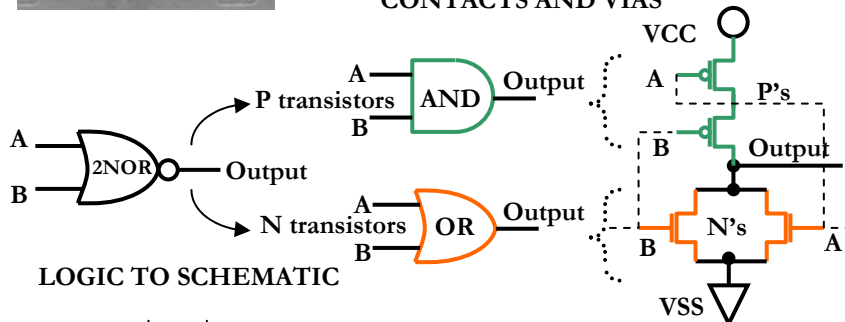
GRAPHICS ALSO INCLUDED IN THE TEXT and the IC STATION® “STUDENT VERSION” – LAB MANUAL



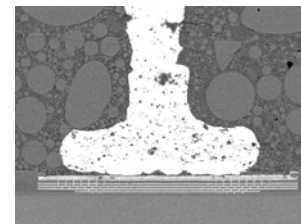
CONTACTS AND VIAS



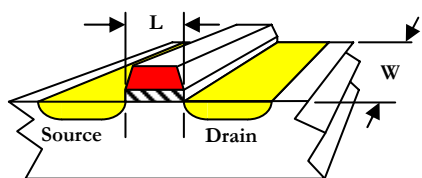
CAPACITORS



LOGIC TO SCHEMATIC



BALL BOND



W over L

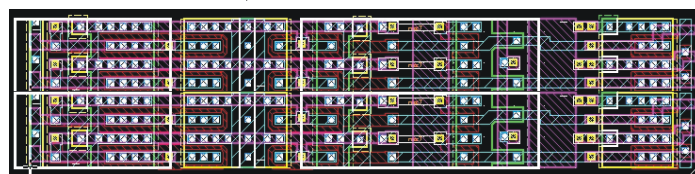


Photo Courtesy Mentor Graphics Corp. Layout created using IC-Station.

ARRAYED CELLS



INDUCTORS



MENTOR GRAPHICS' IC STATION –“STUDENT VERSION” LAB MANUAL

Educator's comments on *CMOS IC Layout-A Guide to Topological Chip Design*

- “A graduate course on VLSI Design Methodology, good text for beginning and experienced layout personnel.”
Dr. C. Andre T. Salama, Professor and EE Department Chair, University of Toronto
- “A concise and well-organized resource that I highly recommend for anyone seeking a hands-on approach to layout. Excellent techniques for analog and mixed signal designs.”
Dr. Samuel Villareal, Assistant Professor, EE Department, University of Texas, Dallas
- “CD ROM with CAD tools from Mentor Graphics allows one to sit down at their computer and practice the techniques. The latest in deep-sub-micron CMOS technology, with photomicrographs of actual IC cross-sections.”
Dr. William Ahlgren, EE Dept, California Polytechnic State University, San Luis Obispo, CA
- “A text on how to do it the practical way . . . the right way. Absolutely, I wholeheartedly recommend it.”
Dr. John Karonika, University of Houston

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And MENTOR GRAPHICS IC-STATION® “STUDENT VERSION” with LAB MANUAL! + T & H

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