

Series 4 Integrated Circuit Engineering Collection CONSTRUCTION ANALYSIS

Description:

Construction Analysis is a complete physical characterization of a *specific circuit*. The analysis covers x-ray, optical, scanning electron micrographs, cross sections, topological layout and dimensions, layer thickness, and material analysis.

ESD and latchup sensitivity are also included on specific circuit analyses. Some of the many uses ICE has found for construction analysis are: access technology, selecting preferred vendors and second sources, documenting process changes, background for failure analysis and patent investigations.

These reports are published and sold through Integrated Circuit Engineering to the industry-at-large. Many are available in the Smithsonian collection on CD-ROM. Most have client-published information added to the analysis as an addendum.

For example the...

FAIRCHILD 93Z565 PROM, March 1984, outlines the complete chip, from text information to photographs. The construction analysis often rendered the chip useless and non-existent after the investigations were completed. In this case the construction analysis verifies and provides complete definition and locations of the circuit areas, e.g. logic, memory matrix & cells, input/output buffers addresses, decoder(s) and binary addresses.

Active links below will display CD-ROM reports which are currently online at this web site.

Requires Adobe Acrobat Reader

• Shared Construction Analysis

SCA 9712-569: report was issued the 12th month of 1997 and is the 569th report in the series.

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Samsung KM44C4000J-7
16 Megabit DRAM

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Micron Semiconductor MT5C64K16A1DJ

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FPGA
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1Mbit UVEPROM
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2Mbit SRAM
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32 Macrocell PLD
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CMOS FPGA
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4 Meg. SRAM
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Microcontroller
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512K UVEPROM

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AMD AM27C010

1M UVEPROM

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SGS-Thomson M17C1001

1Mb UVEPROM

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SGS-Thomson 93C46CB1

1K EEPROM

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Xicor X25020P

2K EEPROM

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Lattice ispLSI1032E

CPLD

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Sony CXK5B16120J-12

1Mbit (64K x 16) BiCMOS SRAM

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64 Mbit DRAM

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Dallas Semiconductor DS80C320

Microcontroller

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AMD MACH5 512

Complex Programmable Logic Device

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AMD MACH5-256

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8Meg. SGRAM

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8Mbit SGRAM

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256Kbit SRAM

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8Meg. SGRAM

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64-Bit Microprocessor

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Winbond W2E512, W27E257
EEPROM

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32Mb MROM

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StrongARM 32-Bit Microprocessor

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64Mbit DRAM

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Processor W/MMX

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Microprocessor

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(Klamath) Processor

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Atmel AT89C2051 & AT89S8252
Microcontrollers

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FPGA

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16Mbit DRAM (EDO)

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Digital Correlator

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NKK NR4645LOE-133

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32Mbit Flash EEPROM
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4Mbit NAND EEPROM
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SCSI I/O Processor
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64K EEPROM
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Controller
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