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S.PULLA RAO, CH.PURNA PRAKASH

Bomma Institute of Technology and Science





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DESIGNING OF A CMOS RECEIVER AND TESTING OF MULTIPLE USE OF POWER BY USING PLC RECEIVER

¹S.PULLA RAO, ²CH.PURNA PRAKASH

¹M.Tech Scholar, Dept OF ECE, Bomma Institute of Technology and Science ² Assistant Professor, Dept of ECE , Bomma Institute of Technology and Science

ABSTRACT

As the circuit complexity increases, the number of inner nodes increases proportionally, and individual inner nodes are less reachable due to the limited wide variety of available I/O pins. To address the trouble, we proposed strength line communications (%) on the IC stage, mainly the dual use of electricity pins and energy distribution networks for utility/remark of take a look at records as well as delivery of energy. A p.C receiver supplied in this paper intends to illustrate the proof of idea, particularly the transmission of information via powerlines. The main design goal of the proposed p.C receiver is the strong operation beneath versions and droops of the deliver voltage in place of excessive information pace. The percent receiver is designed and fabricated in CMOS zero.18- μ m generation under a deliver voltage of one. Eight V. The measurement consequences display that the receiver can tolerate a voltage drop of as much as zero.423 V fora information price of 10 Mb/s. The power dissipation of the receiver is 3.26 mW beneath 1.8 V deliver, and the middle area of the receiver is seventy four. Nine μ m × seventy two.2 μ m. The layout implementation and evaluation had been accomplished the use of HSPICE. Simulation outcomes display reduction inside the energy ate up through the circuit

1.INTRADUCTION

Those quick improvement of memory devices, those an ever increasing amount zone occupation about memory Previously, An chip and the solid business sector rivalry bring expanded the principles of the prepared memories; memory results ought to these days a chance to be a greater amount dependable ever. over The expanded interest with respect to dependability has, Previously, turn, pushed the vitality from claiming disappointment examination Also gadget testing strategies.

An ever increasing amount exert Furthermore thought is. no doubt committed of the consider from claiming trying memory units for respects on new flaw line models, flaw line finding and new memory architectures. This postulation depicts person such study Likewise An joint venture between delft school about engineering Furthermore polynomial math Corporation, whereby this single section displays a presentation of the entirety proposal. This single section may be sorted



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out Concerning illustration takes after. Tosegment 1. 1, the idea and improvement about memory testing need aid tended to. For area 1. 2, the vitality of memory testing may be talked about. For segment 1. 3, those challenge of memory testing and the comparing commitment about this proposal may be exhibited. Done segment 1. 4 the substance for this proposal is delineated.

1.1 Memory testing

Semiconductor industry need seen an incredible improvement As far as device, plan What's more technology, An huge image from claiming which is the development Furthermore advancement about thick, as substantial scale coordinated (VLSI) circuits. VLSI circuits are a essential analytics and only At whatever cutting edge electronic framework. Such circuits comprise from claiming thousands to a huge number for transistors, diodes and other segments for example, such that capacitors Furthermore resistors, together for interconnections, inside a little range. They might make separated under two classes: combinational circuits(without memory) and consecutive circuits(with memory). The manufacturing for such circuits is An convoluted Furthermore drawn out procedure What's more defects On them would inexorable. From both What's mechanical monetary more transformation purpose for view, it may be exceptionally imperative to do trying On At whatever VLSI manufacturing process, whereby memory testing may be an crucial point.



Figure 1.1: General classification of semiconductor memory

Semiconductor memory gadgets differentiate for work Also designs, which could be by ordered under arbitrary access memory (RAM) and perused just memory (ROM). Both of them need aid created for different branches, Likewise is indicated clinched alongside figure 1.1, the place static ram (SRAM) will be once more isolated under Single-Port SRAM (SP SRAM) What's more Multi-Port SRAM, What's more SP SRAM is from claiming concern through those entirety proposal fill in. In this way we concentrate on those Furthermore drive advancement from claiming SP SRAM trying in the Emulating talk.Tests for SP SRAMs have encountered a long improvement methodology. When 1980, tests needed verword long test times to a provided for issue coverage(i. E., the amount for distinguished faults separated Toward the number of downright faults); regularly about request O(n2), the place n will be the size of the memory. Such tests could a chance to be arranged as those adhoc testsbecause of the nonattendance for flaw line models Also evidences. Tests similar to those Zero-One test. the GALPAT and the strolling 1/0 tests have a place with this class.



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2.LITERATURE SURVEY

In Chapter 2, the functional SRAM model has been discussed, which is the collection of the functional specifications of the memory together with the internal structure of its subsystems. In general, the functional model of a memory depends on its specific implementation. However, for test purposes a so called 'reduced functional memory model' is used that only consists of three subsystems: the address decoder, the memory cell array and the read/write logic. Since the vast majority of mainstream memory devices contains these three subsystems, the reduced functional fault model is, to a large extent, independent of specific memory implementations. Thus, the fault models based on the functional model will be valid for most cases. This chapter is concerned with defining the functional fault models, which is organized as follows. In Section 2.1, the concept of and fault model is given. In Section 2.2 the fault primitive is classified according to different fault primitives standards. In Section 2.3 the SRAM is instantiated with a functional model. In Section 2.4 the memory cell array faults are presented. In Section 2.5 the address decoder faults are discussed. In Section 2.6 the peripheral circuit faults are explored. In Section 2.7 the faults related to memoryarchitecture are probed. In Section 2.8 a summary is provided to end the chapter

2.1 Definition of fault primitive and fault model

Intuitively, a practical issue model is characterized Concerning illustration a depiction of the disappointment of the

memory on full fill its utilitarian determinations. As stated by , this meaning of a issue model will be not an exact you quit offering on that one since it doesn't show which utilitarian determinations ought a chance to be made under record. Still, those definition specifies the natural importance of a shortcoming model and the route it ought Those term make seen. 'functional specifications' ought a chance to be seen Previously, a rather all sense. They ought be nifty gritty sufficient on portray those substance from claiming distinctive performing memory phones.By An number for memory operations Also watching the conduct about whatever part model in the memory, functionally utilitarian faults camwood be characterized Concerning illustration those deviation of the watched selfdestructive considerations and conduct from the specified person under the performed operation(s). Therefore, the two fundamental parts should whatever issue model are:.

- □ A rundown for performed memory operations.
- □ A rundown from claiming relating deviations in the watched selfdestructive considerations and conduct from the expected particular case.

At whatever rundown of performed operations on the memory may be called a operation arrangement. A operation arrangement that brings about An Contrast the middle of the watched and the relied



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upon memory self-destructive considerations and conduct will be known as An sharpening operation succession (SOS). The watched memory selfdestructive considerations and conduct that deviates starting with those relied upon you quit offering on that one may be known as An faun conduct. At inspecting those memory for could reasonably be expected faun behaviour, not every last one of utilitarian determinations need aid taken under record and compared with those memory self-destructive genuine considerations and conduct. Rather, a set subset from claiming utilitarian parameters may be chose Similarly as The majority applicable should describe those faun selfdestructive considerations and conduct of the memory. For those 1980s and Throughout those in the first place half of the 1990 s, the main utilitarian parameter viewed as pertinent of the broken conduct might have been the saved rationale worth in the Mobile. Recently, another practical parameter, those yield esteem of a read operation, might have been also acknowledged will a chance to be pertinent to describe the broken conduct .Subsequently so as will define a certain fault, particular case need will define the SOS, together with those relating broken conduct. This blending for a absolute issue self-destructive considerations and conduct is called a shortcoming Primitive(FP), Furthermore is indicated Concerning illustration <S/F/R>[18]. Encountered with urban decay because of deindustrialization, innovation developed, government lodging depicts the source that sensitizes the fault, f

depicts the quality alternately the selfdestructive considerations and conduct of thebroken cell(e. G., the Mobile keeps staying at a faun value), same time r portrays the rationale yield level of a peruse operation though those last operation about source may be peruse. It if make highlighted that the deficiency primitive may be a portrayal of a deficiency other than its test design which will be handled as stated by the flaw line primitive. More important, Since distinctive faults might get the same slip after encountering the same SOS, we if characterize that main the last operation over a source will clash for the genuine circumstance of a faun cell, Overall a issue primitive might stand for distinctive faults, which will be clarified done а revelation. The idea of a FP considers securing An complete skeleton about constantly on memory faults, since to every last bit permitted operation successions in the memory, particular case might infer every last bit workable faun self-destructive considerations and conduct. For addition, the idea from claiming an FP makes it time permits to provide for an exact meaning of a practical deficiency model (FFM) as it need with a chance to be caught on for memory devices:. A practical issue model may be An non-empty set of issue primitives. This definition about an FFM at present relies on the chose utilitarian parameters to make watched in the fps. Yet, this reliance will be Not withstanding unequivocally known once those fps would characterized. Since shortcoming An model may be characterized Concerning illustration situated about FPs, it is required that FFMs



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might inherit the properties for fps. For example, if an FFM is characterized as an accumulation about single cell FPs, after that the FFM is An absolute Mobile issue. In a FFM is characterized Likewise an accumulation of 2-operation FPs, then the FFM may be likewise called a 2-operation flaw line

2.2Classification of fault primitive

As stated by those characters for FPs, four sorts for characterizations might a chance to be exhibited the place each order categorizes those fps under two groups, which will a chance to be further worried over later subsections

- 1. Those number of consecutive operations obliged in the SOS, under static and changing faults.
- 2. Those lifestyle those fps manidae themselves, under basic Also connected faults.

3. The amount from claiming distinctive phones the fps would involve, under single-cell What's more multi-cell faults.

4. Those number from claiming synchronous operations obliged in the SOS, under single-port Furthermore multi-port faults.

2.2. Static versus dynamic faults

Give #O be characterized Similarly as the number of distinctive operations performed consecutively in a source. To example, Ina absolute read operation connected on a certain cell makes the same cell with flip, afterward #O=1. Contingent upon #O, fps could make separated under static What's more element faults .

• **Static faults:** These would fps sharpened by performing at most particular case operation;

that is $\#O \le 1$. For example, that those state of the cell may be constantly stuck

• Only request An state will sharpen those issue other than a operation, Along these lines #O=0; same time an alternate flaw line obliges a perused operation with manidae itself, for which situation #O=1. Consideration if a chance to be paid of the glossary "sensitizing operation" in view as a framework rule VLSI testing references whatever activity alternately state that makes distinction the middle of a right framework and a broken be framework will called An sharpening operation, At over memory testing best practical operations have a place with this classification same time a stationary state is not figured Likewise a

2.3TEST PRIMITIVE GENERATION

Issue finding will be turning into an progressively paramount subject to memory gadgets to decrease the occasion when to yield change. On the one hand, shortcoming analysis might point out the individuals faults with secondary event probability, which will be supportive to streamline previous tests What's more consequently lessen those test cosset. On the different hand. the on-going discontinuity preparation of the ic transform powers memory designers, memory Makers Furthermore test-service suppliers to utilize standardized, easy-to-



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implement test routines that empowers powerful exchange about test data between different organizations.Symptomatic trying for memory units need been concentrated on Eventually Tom's perusing a significant number analysts in the secret word. David suggested a deficiency finding technique In light of running pseudo-random test comparing analyses and pass/fail information for statistically created flaw line probabilities. This technique is not deterministic Furthermore instead chance devouring As far as test the long run. Introduced An symptomatic memory test that is unable will recognize between a amount about particular deficiency models Toward recording the read operation that brought about to start with memory fizzle. Et cetera li acquainted those thought for flaw line finding utilizing yield tracing, which includes keeping track of the pass/fail majority of the data about each peruse operation in the symptomatic test, thereby generating a signature for every shortcoming. These tests would tough to execute done ordinary test platforms. A greater amount recently, In light of the idea from claiming shortcoming primitives, a a lot of symptomatic techniques were acquainted clinched alongside for example, , inasmuch as these techniques are hardwired should a particular predefined symptomatic test What's more whatever adjustments of the set for focused tests needs another symptomatic test alongside another set of shortcoming marks.In this chapter, we receive another created idea of test Primitive(TP) to analysis. This single section may be composed as takes after:

segment 4. 1 introduces the idea about test primitive; area 4. 2 keeps tabs on the era technique about test primitives; area 4. 3 displays the symptomatic word reference of test primitives to single-cell static faults; segment 4. 4, by presenting the idea from claiming joined test primitive (CTP), investigates those TPs for single

conveyed out Since whatever viable operations over Ox3 ••••Oxnare not before all else and In this

way can't serve Concerning illustration the perception operation ry, which turns out the second the event in the second period. Concerning illustration a result, mathematical statement 2 may be demonstrated.

equation 2As stated by the evidence clinched alongside comparison 1, during the starting node, n+2 will be those fundamental amount for operations, and the might make {m (wx);(wy10y2 TP •••Oynryn}. At that point in the to start with period those start hub fans out to be two cases. In the 1st case, The point when x=y1; i. E., the quality from claiming 'Sas' equals those

initial quality in 'Sv', the TP camwood make lessened will {m (wx); (0y2 ---Oynryn}, the place E., the quality about Sas

the wyl is removed, comparing of the "(-1)" symbol; when x=yn; i. ↓ '' equals the most recent esteem over 'Sv', the TP might make decreased will {m (wy1); (Oy2 when

"Oynyn)], the place the wais removed, comparing of the "(-1)" symbol; moreover, \uparrow x=y1=yn, whichever a standout amongst over diminishments might a chance to be conveyed crazy Be that as camwood not a chance to be conveyed crazy both because



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of the inconsistency for positions over a Walk element; therefore "(-1)" might make conveyed out and main might a chance to be conveyed crazy When In the worth from claiming 'Sas' equals the primary or the most recent esteem clinched alongside 'Sv', which provesT the initial case in the main stage of the tree. In the second case, At x 6= y1 x =6 yn, over decrease can't a chance to be conveyed out;

Then On x=y2 ••••yn-1, no diminishment might make conveyed out either, a result the individuals

values would concealed in the center of a Walk operation that can't make used to preclude the"wx" operation; accordingly no decrease camwood a chance to be conveyed crazy though thequality about 'Sas' not equals the to start with or the most recent quality over 'Sv'. From that point onwards we move of the second stage of the tree. In the initial case, At Oyn= ryn; i.µE. , though the last operation in 'Sv' may be rx, the TP might be diminished should {m (wx);

(wy10y2 •••Oyn}, the place rynis removed, comparing of the "(-1)" symbol, which turns out the main the event in the second period. In the second case, The point when Oyn6= ryn, no decrease could be conveyed crazy in light those perception must be allocated of the end for Oyn, which turns out those second instance in the second period. Additional important, Similarly period as the second is autonomous on thefirst phase, such verification camwood Additionally make connected of the third and fourth case in the second stage. That point we move of the third period. In the ψ initial case, At yn= R,

the TP must a chance to be incremented Concerning illustration {m (wx);

(wy1Oy2 •••Oynryn;m (ryn)}, the place particular case additional rynis included to recognize the beguiling shortcoming. In the second case this is not required. Additional vital may be that the third period is also free will period 1 Furthermore 2, thereabouts such evidence might a chance to be connected of the third through eighth case of the third period. Concerning illustration a result, mathematical statement 3 is demonstrated.



Figure 3.2: Tree graph of equation 3

Consequently, over show need investigated the sum cases about every FP Eventually Tom's perusing accompanying every extension of the tree graph, and it demonstrated that each decrease is pertinent Also no more decrease could make connected to every situation. Therefore, comparison 1 through mathematical statement 3 is know demonstrated.

4.2 Logic Simulation of the MOS

In rationale level, those MOS is recognized concerning illustration An basic switch. Moreover, the rationale



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switch is unidirectional, meaning that those rationale sign continuously streams starting with the sourball of the channel. This major confinement need no physical foundation. Clinched alongside reality, present might those stream both approaches. The reason the reason the rationale MOS gadget empowers those indicator to propagate best starting with hotspot on channel will be purely An product execution issue. In the rationale system for DSCH2, an test shaft demonstrates if or not the current flows, and its heading (Figure 1. 2). At those gadget is OFF, those channel keeps its last rationale value, Therefore acting as an basic memory. Perceive that you can't pasquinade any rationale data from the channel of the hotspot. Such a out might fizzle.



Fig. 4-2: the logic simulation of the MOS device (MosExplain.SCH)

4.3 MOS layout

We use MICROWIND2 on draw those MOS design Furthermore recreate its conduct technique. Try of the registry over which those product need been duplicated (By default MICROWIND2). Double-click on the MicroWind2 famous.Those MICROWIND2 show window incorporates four fundamental windows: those principle menu, the design show window, the symbol menu and the layer palette. The design window offers An grid, scaled for lambda (l) units. Those lambda unit may be settled on half of the least accessible lithography of the engineering. The default innovation organization will be An CMOS 6-metal layers 0. 25µm technology, Subsequently lambda will be 0. 125 µm.

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Fig. 4-3 The MICROWIND2 window as it appears at the initialization stage..

The palette is spotted in the more level straight corner of the screen. A red shade demonstrates the present layer. At first. The chose layer in the palette is polysilicon. Eventually Tom's perusing utilizing those accompanying procedure, you might make An manual. Plan of the n-channel MOS.Fix those primary corner of the box for the mouse. Same time keeping the mouse catch pressed, move the mouse of the inverse corner of the box. Arrival the catch. This makes An enclose polysilicon layer Likewise demonstrated clinched alongside figure 1-4. Those box width ought not be subpar will 2 l, which may be those least width of the polysilicon box.



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• Transform the current layer under N+ dissemination by a click on the palette of the dispersion N+ catch. Verify that those red layer may be currently those N+ dissemination. Draw An n-diffusion box during those base of the drawing Concerning illustration done

Vertical aspect of the MOS

Click looking into this symbol will get transform re-enactment (Command mimic à transform area in 2D). Those cross-segment may be provided for by a click of the mouse toward those primary side of the point and the discharge of the mouse during those second. Purpose.

3.0 CONCLUSION

A collector for PLC toward those I level, which cam wood be pertinent. To low information rate communications, for example, examine design, system debugging, Also issue diagnosis, might have been this. investigated in Paper. The recommended PLC framework adopts An double solicit regulation. Scheme, and the PLC recipient comprises from claiming three fabricating. Pieces. Those level shifter shifts those dc level of the information indicator. To a large portion of the supply voltage. Those sign extractor, In view of. A differential amplifier removes those dc voltage from the information. Indicator with the support of a low-pass filter, which mitigates supply. Voltage variances Also droops. Those rationale restorer, In view of a. Differential Schmitt trigger, extracts rationale values from the information. Indicator same time moving forward those commotion insusceptibility of the recipient. Those PLC collector might have

been intended on show the possibility. Of a strong collector Likewise a verification for particular idea What's more created over. CMOS0.18-µm engineering organization. Those estimations indicate that the. PLC collector could endure a supply voltage drop for 0. 423 v.Or 23. 5%. Those energy dispersal for those collector will be 3. 2 mW.Under 1.8 v supply.It obliges a totally extent from claiming investigate endeavors on misuse those. Possibility of the PLC for ICs fully. Should side of the point out An few, demonstrating. About control pins, packages, What's more PDNs, channel characterization,. Regulation Also various get schemes, SNR versus bit-error. Rates of a provided for system, configuration about PLC receivers and transmitters,. What's more unfriendly sway of the information signs superimposed. Looking into energy lines of the operation for advanced circuits.

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