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SSCS CICCedu 2019 - Digital PLL -
Presented by Mike Shuo-Wei Chen

23. PLL (Phase Locked Loop) (part 2),
XOR gate as digital phase detector
~~Phase Locked Loop Tutorial | PLL~~

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Basics What is Phase Lock Loop
(PLL)? How Phase Lock Loop Works ?

PLL Explained A *NOVEL*

SUCCESSIVE APPROXIMATION

FAST LOCKING DIGITAL PHASE

LOCKED LOOP 187N. Intro. to phase-
locked loops (PLL) noise *what is*

Phase locked loop? What is the need

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of it, and how it works? PLL tutorial

PLL basics #16 ~~Phase Locked~~

~~Loop(PLL) for 3 phase grid connected
inverter | MATLAB Simulation. 76.~~

~~Phase Locked Loops 19. Phase-~~

~~locked Loops #60: Basics of Phase~~

~~Locked Loop Circuits and~~

~~Frequency Synthesis All Digital~~

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*Phase Locked Loop (ADPLL) Design
For Tranceiver Frequency Multiplier—
Theory and Prototyping Example DIY
Phase Locked Loop VCO Julian plays
with Frequency Division and
Multiplication 2 Stage 3 Phase grid
connected solar inverter - MATLAB
Simulation Simple Phase Locked Loop*

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~~Application Demo DQ Control of
Single Phase Grid-connected Inverter
-MATLAB Simulation. PLL Lock
range and capture range PLL Basics
and Usage Resonance: CD4046BE
Phase Locked Loop Resonance Demo
*Understanding and Comparisons of
High-Speed Analog-to-Digital (ADC)*~~

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~~and Digital-to-Analog (DAC) Conv Oral~~

~~History of David Hampton VelTech~~

~~University_Design Of All Digital Phase~~

~~Locked Loop As A Frequency~~

~~Synthesizer L39_Phase Locked Loop~~

~~(PLL) || Integrated Circuits || Hindi~~

~~Introduction to Phase Locked Loops~~

According to Pete #54 - Phase Lock

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Loops *PLL Design with MATLAB and*

Simulink ~~Lec 63: PHASE LOCKED~~

~~LOOP (PLL) : Analog \u0026amp; Digital~~

~~PLL [In Hindi] Mod-11 Lec-31 Phase~~

~~locked loop basics Digital Phase~~

~~Locked Loop Design~~

Design of CMOS Phase-Locked Loops

- by Behzad Razavi January 2020

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~~Digital Phase Locked Loops (Chapter
10) - Design of CMOS ...~~

CMOS Phase Locked Loops © P.E.
Allen - 2018 Design Example – A
Frequency Synthesizer Using the
74HC/HCT4076 Design a DPLL
frequency synthesizer using the

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CMOS 74HC/HCT4076 PLL. The frequency synthesizer should be able to produce a set of frequencies in the range of 1MHz to 2MHz with a channel spacing of 10kHz.

~~LECTURE 6 DIGITAL PHASE LOCK
LOOPS (DPLLs)~~

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In this brief, a systematic design procedure for a second-order all-digital phase-locked loop (PLL) is proposed. The design procedure is based on the analogy between a type-II second-order analog PLL and an all-digital PLL. The all-digital PLL design inherits the frequency response and stability

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Characteristics of the analog prototype
PLL.

~~A design procedure for all-digital
phase-locked loops ...~~

CMOS Phase Locked Loops © P.E.
Allen - 2018 BUILDING BLOCKS OF
THE DPLL Block Diagram of the DPLL

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- The only digital block is the phase detector and the remaining blocks are similar to the PLL
 - The divide by N counter is used in frequency synthesizer applications.
- $f_{out} = f_{in} / N$
- 2' = 1 = 2 N
- ? 2 = N 1 Digital Phase Detector
- Analog Lowpass Filter VCO , N
- Counter

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~~LECTURE 5 DIGITAL PHASE LOCK
LOOPS (DPLLs)~~

DIGITAL PHASE-LOCKED LOOP

SCHS297D – AUGUST 1998 –

REVISED JUNE 2002 POST OFFICE

BOX 655303 • DALLAS, TEXAS

75265 1 Speed of Bipolar FCT, AS,

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and S, With Significantly Reduced
Power Consumption Digital Design
Avoids Analog Compensation Errors
Easily Cascadable for Higher-Order
Loops Useful Frequency Range – DC
to 110 MHz Typical (K CLK)

~~GD74ACT297 DIGITAL PHASE-~~

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~~LOCKED LOOP~~

Phase Locked Loops (PLLs) are a widely needed and used circuitry in today's semiconductor chips. They are used for 3 different tasks: a) generation of high speed on chip clocks by frequency multiplication b) deskew of clocks to reduce clock skew

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~~Fully Digital Implemented Phase
Locked Loop Design And Reuse~~
Phase 2: Phase Locked Loop and
Power Control Design Lab 3 focuses
on system-level design of a digitally
controlled switched-mode power
supply (SMPS) and its prototyping on

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an industrial-strength platform, using LabVIEW and Hardware-In-The-Loop (HIL) validation. The LabVIEW code and a few useful references for this lab have been posted on Piazza.

~~Exercise 1: Design of a Software
Phase Locked Loop~~

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And layout phase margin (or damping factor).

- Phase margin is determined from linear model of PLL in frequency-domain.
- Find phase margin/damping using MATLAB, loop equations, or simulations.
- Stability affects phase error, settling, jitter.

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~~Practical Phase Locked Loop Design~~
And Layout

Frequency and phase locked loops.
The purpose of a phase locked loop (PLL) is to generate a frequency and phase-locked output oscillation signal. To achieve this goal, prior art essentially functioned by frequently changing the PLL output frequency

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According to the phase error (i.e. the faster/slower phase relationship) to generate a momentary, but not static, frequency and phase locked output oscillation signal.

~~Frequency and phase locked loops~~
EDN

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In its most basic configuration, a phase-locked loop compares the phase of a reference signal (F_{REF}) to the phase of an adjustable feedback signal (F_{IN}) F_0 , as seen in Figure 1. In Figure 2 there is a negative feedback control loop operating in the frequency domain. When the

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Comparison is in steady-state, and the output frequency and phase are matched to the incoming frequency and phase of the error detector, we say that the PLL is locked.

~~Phase-Locked Loop (PLL)~~
~~Fundamentals | Analog Devices~~

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Software Phase Locked Loop Design
Using C2000™ Microcontrollers for
Single Phase Grid Connected Inverter
ManishBhardwaj ABSTRACT Grid
connected applications require an
accurate estimate of the grid angle to
feed power synchronously to the grid.
This is achieved using a software

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And Layout
phase locked loop (PLL). This
application report discusses

~~Software PLL Design Using C2000
MCUs Single Phase Grid ...~~

The inner loop is a simple Phase
Locked Loop with a limited lock range
and works once the outer loop stops.

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The outer loop is the sweeping circuit which uses a 90° phase shift of the output, a decision filter, a level comparator and a sweep generator, which is controlled by the threshold.

~~DESIGN AND IMPLEMENTATION OF
AIDED ACQUISITION AND LOCK ...~~

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A phase-locked loop or phase lock loop (PLL) is a control system that generates an output signal whose phase is related to the phase of an input signal. There are several different types; the simplest is an electronic circuit consisting of a variable frequency oscillator and a

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And layout in a feedback loop. The oscillator generates a periodic signal, and the phase detector compares the ...

~~Phase-locked loop - Wikipedia~~

Analogue or digital in PLL design. The performance of analogue phase-

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locked loops (PLLs) has steadily improved with operating frequencies extending to 8GHz and beyond. Recently, digital PLLs based on direct digital synthesis (DDS) have emerged as alternatives in certain applications. So what are the differences between analogue PLLs and DDS-based digital

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PLLs, and how should the designer choose the best option.

~~Analogue or digital in PLL design—
Electronics Weekly~~

A Design Procedure for All-Digital
Phase-Locked Loops Based on a
Charge-Pump Phase-Locked-Loop

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Analogy Abstract: In this brief, a systematic design procedure for a second-order all-digital phase-locked loop (PLL) is proposed. The design procedure is based on the analogy between a type-II second-order analog PLL and an all-digital PLL.

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~~A Design Procedure for All-Digital
Phase Locked Loops ...~~

It comprises of a logic exclusive OR circuit. Being digital in format it can often fit into a phase locked loop with ease as many of the circuits associated with the phase locked loop may already be in a digital format.

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Alternatively an exclusive OR can be made from discrete components to give a wider variety of levels and other options.

~~Phase Detector: Digital Analogue
Linear Mixer ...~~

The All Digital is an all digital

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Implementation of a phase locked loop. PLLs are widely used in telecom applications for clock recovery, clock generation and clock supervision. Different phase detectors (FIFO fill level, phase errors, and so on) may be used and can be adapted to perfectly fit the application.

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~~All Digital PLL – Design And Reuse~~

• ADPLL Design • ADPLL System

Simulation Lecture 080 – All Digital

PPLs (5/15/03) Page 080-2 ... Digital

Phase Detector Digital Loop Filter

Digital VCO v1 v2' "vd" "vf" Square

Waves Advantages: ... When the loop

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is locked, $f_c = MNf_1$. Note that the duration of the start pulse $< 1/f_c$.

Waveforms:

~~LECTURE 080 — ALL DIGITAL
PHASE LOCK LOOPS (ADPLL)~~

In electronics, a delay-locked loop (DLL) is a digital circuit similar to a

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And Layout
phase-locked loop (PLL), with the main difference being the absence of an internal voltage-controlled oscillator, replaced by a delay line.

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