

Sine Wave Generation Techniques

Producing and manipulating the sine wave function is a common problem encountered by circuit designers. Sine wave circuits pose a significant design challenge because they represent a constantly controlled linear oscillator. Sine wave circuitry is required in a number of diverse areas, including audio testing, calibration equipment, transducer drivers, power conditioning and automated test equipment (ATE). Control of frequency, amplitude or distortion level is often required and all three parameters must be simultaneously controlled in many applications.

A number of techniques utilizing both analog and digital approaches are available for a variety of applications. Each individual circuit approach has inherent strengths and weaknesses which must be matched against any given application (see table).

PHASE SHIFT OSCILLATOR

A simple inexpensive amplitude stabilized phase shift sine wave oscillator which requires one IC package, three transistors and runs off a single supply appears in Figure 1. Q2, in combination with the R/C network, comprises a phase

shift configuration and oscillates at about 12 kHz. The remaining circuitry provides amplitude stability. The high impedance output of Q2's collector is fed to the input of the LM386 via the 101 μ H series inductor. The 101 resistor in combination with the internal 150 k Ω unit in the LM386 divides Q2's output by 20. This is necessary because the LM386 has a fixed gain of 20. In this manner the amplifier functions as a unity gain current buffer which will drive an 8 ohm load. The positive peaks at the amplifier output are rectified and stored in the 5 μ F capacitor. This potential is fed to the base of Q1. Q2's collector current will vary with the difference between its base and emitter voltages. Since the emitter voltage is fixed by the LM313 1.2V reference, Q2 performs as a compression function and its collector current modulates Q1's base voltage. Q1, an emitter follower, provides servo control to the Q2 oscillator. If the emitter of Q2 is stepped up and driven by a control voltage, the amplitude of the circuit output may be varied. The LM386 output will drive 5W (12.75 Vrms) peak-to-peak into 8 ohm with about 2% distortion. A $\pm 2\%$ power supply variation causes less than ± 0.1 dB amplitude shift at the output.

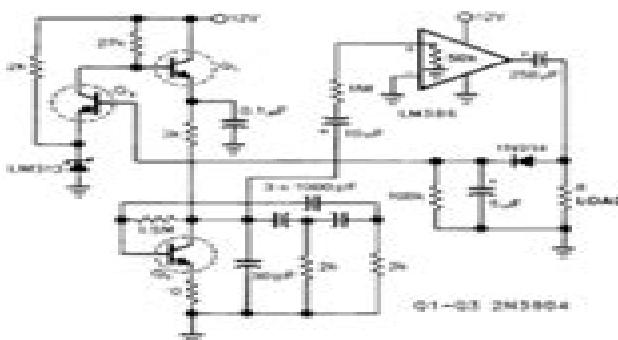


FIGURE 1. Phase-shift sine wave oscillators combine simplicity with versatility. This 12 kHz design can deliver 5 Wp-p to the 8 ohm load with about 2% distortion.

Sine Wave Generation Techniques

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Sine Wave Generation Techniques:

Digital Waveform Generation Pete Symons,2014 This overview introduces powerful flexible and practical digital waveform generation techniques enabling the design of bespoke digital waveform generation systems from scratch Including detailed hardware design examples and downloadable Mathcad models created for what if design scenarios this is essential reading for professional members of the digital signal processing community

CMOS Readout Chips for Implantable

Multimodal Smart Biosensors Moustafa Nawito,2017-11-22 Moustafa Nawito describes in detail the development process of a novel platform of Readout Integrated Circuits ROICs which enable the realization of miniaturized multi parameter biomedical implants intended for long term in vivo monitoring He presents new circuits and techniques for fully integrated sinusoidal generation electrochemical impedance spectroscopy as well as on chip measurement of pH levels oxygen concentration and temperature The author draws conclusions of the development process and delivers guidelines for further innovations

Linear Applications Handbook National Semiconductor Corporation,1994 **Sine Wave Generator**

Applications to Process Dynamics J. E. Walker,W. B. Harbarger,1958 **Electronics World** ,2007 **EDN** ,1980

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Yannis Tsividis,Paolo Antognetti,1985 **Measurement Technology and Intelligent Instruments VI** Yongsheng

Gao,Shuettfung Tse,Wei Gao,2005 The requirements of high precision and of high quality components and devices in meeting the needs of modern industry and society in disciplines such as semiconductors optics nanotechnology MEMS manufacturing biomedical and environmental engineering make measurement technology and intelligent instruments which sense measure and report more important than ever and essential for the rapid development of information technology

Electronic Design ,1985 **ITS'98 Proceedings** ,1998 **Proceedings** ,1998 *Proceedings of the 22nd American Towing Tank Conference, St-John's, NF, August 8-11, 1989* ,1989 **Conference Record** ,1990 **IEEE Instrumentation and**

Measurement Technology Conference Proceedings ,1990 *Human Brain Electrophysiology* David Regan,1989

Technical Information Pilot ,1952 **IC Master** ,2001 **Dr. Dobb's Journal of Software Tools for the Professional Programmer** ,1987 *14th Symposium on Integrated Circuits and Systems Design* Sociedade Brasileira de Computação,2001 Annotation Papers from a September 2001 symposium report on recent advances in areas of integrated circuits and systems design including embedded systems rapid prototyping formal methods codesign CAD and test analog digital and physical design and low power and low voltage Specific topics include communication architectures for system on chip using the CAN protocol and reconfigurable computing technology for Web based smart house automation and optimizing BBD based verification analyzing variable dependencies Other subjects include interconnection length estimation at logic level an environment to aid the synthesis of threephase analogue waveform using AHDL and extending sequencing graphs for reconfigurable applications modeling This work lacks a subject index c Book News Inc

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