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Some General Properties of Non-linear Amplifiers ***Distributed Amplifiers: Practical Considerations and Experimental Results Stagger-tuned Amplifiers with Double-tuned Interstages Stanford University Real-time Spectrum Analyzer 300- to 700-Mc/s Traveling Wave Amplifier*** **Spectral Distortion of Notch Filtered FM Signals in Saturated Amplifiers The Analysis and Synthesis of Distributed Amplifiers with Ladder Networks Maximally Flat Amplifiers of Arbitrary Bandwith and Coupling** ***Wideband Limiting-summation Logarithmic Video Amplifier Design*** **Precision, Wideband Log Video Amplifier of Large Dynamic Range** ***Typical Operating Characteristics of Traveling Wave Tube Amplifiers*** **Microwave Acoustic and Bulk Device Technique Studies Study of Class C Applications of Power Transistors at High and Very High Frequencies Intensity Stabilization of Dye Laser Radiation by Saturated Amplification Design of Alignable Transistor Amplifiers Synthesis of Distributed Amplifiers for Prescribed Amplitude Response Design of Stagger-tuned Double-tuned Amplifiers for Arbitrarily Large Bandwidth** ***Solid-state Microwave Amplifiers*** **Effect of Hole Mobility on Acoustic Wave Amplifiers External-circuit Traveling-wave Amplifiers Elementary Study of Magnetic Amplifiers Theoretical Bandwidth Limitations in UHF Parametric Amplifiers and Converters Comparison of Hot-electron and Related Amplifiers Consolidation of Results of Preliminary Beam Tests with Sectors 1 and 2 Pulsed 10 Megawatt Traveling Wave Tube Amplifier Operating Characteristics of a 4.0- to 8.0 KMc/s Backward-wave Oscillator/amplifier Traveling Wave Amplification of Millimeter Waves Development of an X-band Klystron Power Tube** ***A Transistor Amplifier with***

500-Mc Bandwidth 1 Megawatt X-band Klystron Amplifier Systems: Quarterly Status Reports **Wide Band Single Diode Parametric Amplifier Using Filter Techniques** ***Multi-stage, Narrow-band Amplifiers Employing Nonunilateral Electron Devies*** **Study of the Emitting-sole Linear Magnetron Amplifier 1962 Annual Review for Industrial Affiliates of Stanford University in Solid State Electronics Design of Wideband Transistor Amplifiers by an Extension of the Sampled-parameter Technique 400 Mc I-F Amplifier Traveling Space Charge Wave GaAs Amplifier: Final Report Abstracts of Unclassified Technical Reports Issued by Stanford Electronics Laboratories 1949 Through 1958** ***Method for Separating Amplitude and Phase Information in the 1.1 GHz Acoustic Microscope Acoustic Amplification Above 1 Gc***

Acoustic Amplification Above 1 Gc **Dec 26 2019**

Precision, Wideband Log Video Amplifier of Large Dynamic Range Jul 25 2022 This report describes a video-logarithmic amplifier which has the following overall characteristics: an accuracy of better than + or - 1 db when compared to a true logarithmic response; the capability to match to an HP-423A detector so that the combination of detector and logarithmic amplifier will produce an output which is the logarithm of the input rf pulse; a dynamic range of at least 90 db when operated from a 50-ohm source; a rise time of less than 0.1 musec. In addition, it is completely solid state with 13 transistors, 3 high-speed diodes, and 7 Zener regulator diodes. The basic design technique, circuit details, measurement data, and alignment procedure are presented. (Author).

External-circuit Traveling-wave Amplifiers Sep 14 2021

Wide Band Single Diode Parametric Amplifier Using Filter Techniques Oct 04 2020

300- to 700-Mc/s Traveling Wave Amplifier **Dec 30 2022**

Consolidation of Results of Preliminary Beam Tests with Sectors 1 and 2 May 11 2021

Traveling Space Charge Wave GaAs Amplifier: Final Report Mar 28 2020

Intensity Stabilization of Dye Laser Radiation by Saturated Amplification Mar 21 2022

Abstracts of Unclassified Technical Reports Issued by Stanford Electronics Laboratories 1949 Through 1958 Feb 26 2020

Some General Properties of Non-linear Amplifiers May 03 2023

***Stanford University Real-time Spectrum Analyzer* Jan 31 2023**

***Method for Separating Amplitude and Phase Information in the 1.1 GHz Acoustic Microscope* Jan 25 2020**

Spectral Distortion of Notch Filtered FM Signals in Saturated Amplifiers Nov 28 2022 In certain applications, a narrowband spectral notch may be desired in the output spectrum produced by a wide band interference system. Unfortunately, nonlinear effects in saturating power amplifiers can severely degrade a spectral notch applied at the amplifier input. Theoretical and experimental studies of this phenomenon are presented for notch filtered FM signals. The experiments used a TWT amplifier, and the measured results are presented graphically. The TWT input was an FM signal followed by a notch filter. In specific situations of interest, a perfect notch at the TWT input degrades to a 6-dB notch at the output. This and other results are presented and shown to agree well with theoretical predictions. (Author).

400 Mc I-F Amplifier Apr 29 2020

***Solid-state Microwave Amplifiers* Nov 16 2021**

Comparison of Hot-electron and Related Amplifiers Jun 11 2021

Development of an X-band Klystron Power Tube Jan 07 2021 The purpose of this program has been to provide a

tunable, one megawatt, X-band klystron amplifier for a special application. The resulting tube, while providing the high degree of stability and power gain which is characteristic of klystron amplifiers, also provides peak power and average power which are somewhat higher than is otherwise available from pulsed sources at X-band. (Author).

Traveling Wave Amplification of Millimeter Waves Feb 05 2021

***Stagger-tuned Amplifiers with Double-tuned Interstages* Mar 01 2023**

Operating Characteristics of a 4.0- to 8.0 KMc/s Backward-wave Oscillator/amplifier Mar 09 2021

Microwave Acoustic and Bulk Device Technique Studies May 23 2022

Elementary Study of Magnetic Amplifiers Aug 14 2021

Effect of Hole Mobility on Acoustic Wave Amplifiers Oct 16 2021 Acoustic waves can be amplified by interaction with drifting electrons in piezoelectric semiconductors. Amplifiers built on this principle tend to be unstable, because waves reflected from inhomogeneities or a mismatched output propagate in the backward direction with very little attenuation. It is shown in the present paper that the backward attenuation can be increased substantially by allowing the reflected waves to interact with drifting holes. The propagation characteristics of the waves on the drifting electrons and holes are discussed, and numerical calculations are carried out to show that the presence of the holes-tends to stabilize the amplifier. The proposed scheme requires a piezoelectric semiconductor with high intrinsic conductivity. (Author).

Design of Stagger-tuned Double-tuned Amplifiers for Arbitrarily Large Bandwidth Dec 18 2021

Pulsed 10 Megawatt Traveling Wave Tube Amplifier Apr 09 2021

The Analysis and Synthesis of Distributed Amplifiers

with Ladder Networks Oct 28 2022

***Distributed Amplifiers: Practical Considerations and Experimental Results* Apr 02 2023**

***Multi-stage, Narrow-band Amplifiers Employing Nonunilateral Electron Devies* Sep 02 2020**

Theoretical Bandwidth Limitations in UHF Parametric Amplifiers and Converters Jul 13 2021

Design of Wideband Transistor Amplifiers by an Extension of the Sampled-parameter Technique May 30 2020 The experiments conducted in nuclear physics laboratories often require the design of fastpulse amplifiers. Recent transistors offer new capabilities in this field. The work presented here centers on the design of such amplifiers by the sampled-parameter technique, in which the transistor is characterized by two-port parameters measured at a set of frequencies through the frequency band of interest. The feedback and coupling networks are selected by computations based on these sampled parameters. An application of this technique has led to an iterative stage using a 2N918 transistor.

***Wideband Limiting-summation Logarithmic Video Amplifier Design* Aug 26 2022**

***1 Megawatt X-band Klystron Amplifier Systems: Quarterly Status Reports* Nov 04 2020**

Synthesis of Distributed Amplifiers for Prescribed Amplitude Response Jan 19 2022 The purpose of this investigation is the development of synthesis techniques for distributed amplifiers in order to produce amplitude characteristics which approximate specified functions of frequency, using the concepts of modern network theory. Conventional distributed amplifiers are designed by an extension of the principles of image-parameter filter synthesis; this study shows that it is possible to combine the more effective insertion loss method of filter design with an iterative process to achieve prescribed amplitude characteristics for distributed-

amplifier stages in specified circuit configurations.

Design of Alignable Transistor Amplifiers Feb 17 2022

1962 Annual Review for Industrial Affiliates of Stanford University in Solid State Electronics Jul 01 2020

Study of the Emitting-sole Linear Magnetron Amplifier Aug 02 2020

***A Transistor Amplifier with 500-Mc Bandwidth* Dec 06 2020 The design, construction, and evaluation of a lowpass transistor amplifier having 50-db insertion power gain and 500-Mc bandwidth are discussed. The amplifier, useful for i-f, rf, or fast-pulse amplification, consists of seven common-emitter stages, each having collectorto-base feedback. A generalized design procedure is given which should be useful for the con struction of other lowpass amplifiers having bandwidths of 500 Mc or greater. (Author).**

Study of Class C Applications of Power Transistors at High and Very High Frequencies Apr 21 2022 The operation of power transistors in Class C amplifiers at high and very high frequencies is considered. At the lower end of this frequency range, static characteristics are an appropriate basis for the analysis. Two analytic methods and one graphical method of analysis are developed for the nonsaturating case. These methods present the output power, efficiency, and power gain as functions of the operating conditions. By plotting these quantities as contours on peak collector current - flow angle coordinates it is possible to optimize the design. Operation into saturation is examined and equations developed for this case. It is shown that significantly better results can be obtained for this mode of operation. Very high frequency operation is next examined. The various factors affecting such operation are explained and an approximate analysis developed based on an analogy to an RC transmission line. A new method of simulation of a transistor is presented based

on the excess charge-density two-lump model. It is shown how this method can be applied to simulate operation in saturation and to account for the major nonlinearities and two-dimensional effects present in a transistor. Test results are presented for a single two-lump approximation for a vhf power transistor operating as a Class C amplifier.

***Typical Operating Characteristics of Traveling Wave Tube Amplifiers* Jun 23 2022**

Maximally Flat Amplifiers of Arbitrary Bandwith and Coupling Sep 26 2022

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